



CLIENT/OWNER: ROYAL MALAYSIAN NAVY (RMN)	SERIAL NO.	HOURS	LDG/CYCLE		WORKSHEET NO: UMC-M502-6-002
AIRCRAFT TYPE: AS555SN	AIRCRAFT: 5719	3604.4	10237		WORK/INSP/DESC: WIRE MESH
REGISTRATION: M502-6	#1 ENGINE: N/A	N/A	N/A	N/A	WORKPACK REF: NOT APPLICABLE
BASE/FACILITY: LUMUT BASE	#2 ENGINE: N/A	N/A	N/A	N/A	AJL REF NO.: NOT APPLICABLE
DATE IN: OUT:			NG / N1	NF / N2	SHEET: 1 OF 2

Reason for raising: WIRE MESH ON LH WINDSHIELD BEAM FOUND BURN DURING PERFORMED SKIN REPAIR JOB ONA 55/22	Raised by and date: MORADI 01/06/2022	Other requirements/information: NIL
--	---	--

Item	Description	Technician	* Eng. CRS	Date
1	SANDING ON DEFECTIVE AREA TO BE PERFORMED REFERENCE: MTC 20.03.07.401 MAN: 2 HOURS: 2.0 TOTAL MAN HOURS: 4.0 REMARKS: AREA SANDING PERFORMED. FOUND SATIS	 	 	16/6/22
2	CUT OUT DEFECTIVE THE UPPER POLYCARBONATE PLATE REFERENCE: MTC 20.03.07.401 MAN: 1 HOURS: 2.0 TOTAL MAN HOURS: 2.0 REMARKS: CUT OUT DEFECTIVE POLYCARBONATE PRIOR TO REPAIR PERFORMED. FOUND SATIS.	 	 	17/6/22

- The work recorded above has been carried out in accordance with the AW139 Interactive Electronic Technical Publication (IETP), Air-vehicle Maintenance Planning Information (AMPI) - EASA and PT6C-67C Engine Maintenance Manual.
- The work recorded above has been carried out in accordance with the Airbus AS555SN Maintenance Manual, Airbus AS555SN Airworthiness Limitations Section (ALS) and Master Servicing Manual (MSM) and Arrius 1 A Maintenance Manual.
- The work recorded above has been carried out in accordance with Super Lynx Compound Interactive Electronic Technical Publication (CIETP) and CTS800-40N Engine Maintenance Manual.

The work recorded above has been carried out in accordance with the requirements of the Technical Airworthiness Management Manual (TAMM) for the time being in force and in that respect the aircraft / equipment is considered fit for release to service.



CLIENT/OWNER: ROYAL MALAYSIAN NAVY (RMN)	SERIAL NO.	HOURS	LDG/CYCLE		WORKSHEET NO: UMC-M502-6-002
AIRCRAFT TYPE: AS555SN	AIRCRAFT: 5719	3604.4	10237		WORK/INSP/DESC: WIRE MESH
REGISTRATION: M502-6	#1 ENGINE: N/A	N/A	N/A	N/A	WORKPACK REF: NOT APPLICABLE
BASE/FACILITY: LUMUT BASE	#2 ENGINE: N/A	N/A	N/A	N/A	AJL REF NO.: NOT APPLICABLE
DATE IN: OUT:			NG / N1	NF / N2	SHEET: 2 OF 3

Reason for raising: WIRE MESH ON LH WINDSHIELD BEAM FOUND BURN DURING PERFORMED SKIN REPAIR JOB ONA 55/22	Raised by and date: MORADI 01/06/2022	Other requirements/information: NIL
--	---	--

Item	Description	Technician	* Eng. CRS	Date
3	<p>ASSESSMENT ON BURNING AREA TO BE PERFORMED</p> <p>REFERENCE: <i>MRM 53.10.11.779</i></p> <p>MAN: <i>1</i></p> <p>HOURS: <i>0.5</i></p> <p>TOTAL MAN HOURS: <i>0.5</i></p> <p>REMARKS: <i>ASSESSMENT ON AREA FOUND WIRE MESH ON AREA BURNING AND CORRODED. FOR REPAIR SEE PARA 4.</i></p>	<i>[Signature]</i> GAM M020 DGTA	<i>[Signature]</i> GAM M020 DGTA	<i>17/6/22</i>
4	<p>REPAIR ON DEFECTIVE WIRE MESH AREA TO BE PERFORMED</p> <p>REFERENCE: <i>MRM 53.10.11.779, MTC 20.03.07.401</i></p> <p>MAN: <i>2</i></p> <p>HOURS: <i>3.0</i></p> <p>TOTAL MAN HOURS: <i>6.0</i></p> <p>REMARKS: <i>REPAIR ON WIRE MESH AREA PERFORMED. FOUND SATIS.</i></p>	<i>[Signature]</i> GAM A021 DGTA	<i>[Signature]</i> GAM M020 DGTA	<i>18/6/22</i>
















- The work recorded above has been carried out in accordance with the AW139 Interactive Electronic Technical Publication (IETP), Air-vehicle Maintenance Planning Information (AMPI) - EASA and PT6C-67C Engine Maintenance Manual.
- The work recorded above has been carried out in accordance with the Airbus AS555SN Maintenance Manual, Airbus AS555SN Airworthiness Limitations Section (ALS) and Master Servicing Manual (MSM) and Arrius 1 A Maintenance Manual.
- The work recorded above has been carried out in accordance with Super Lynx Compound Interactive Electronic Technical Publication (CIETP) and CTS800-40N Engine Maintenance Manual.

The work recorded above has been carried out in accordance with the requirements of the Technical Airworthiness Management Manual (TAMM) for the time being in force and in that respect the aircraft / equipment is considered fit for release to service.



CLIENT/OWNER: ROYAL MALAYSIAN NAVY (RMN)	SERIAL NO.	HOURS	LDG/CYCLE		WORKSHEET NO:	UMC-M502-6-002
AIRCRAFT TYPE: AS555SN	AIRCRAFT: 5719	3604.4	10237		WORK/INSP/DESC:	WIRE MESH
REGISTRATION: M502-6	#1 ENGINE: N/A	N/A	N/A	N/A	WORKPACK REF:	NOT APPLICABLE
BASE/FACILITY: LUMUT BASE	#2 ENGINE: N/A	N/A	N/A	N/A	AJL REF NO.:	NOT APPLICABLE
DATE IN: OUT:			NG / N1	NF / N2	SHEET:	3 OF 3

Reason for raising: WIRE MESH ON LH WINDSHIELD BEAM FOUND BURN DURING PERFORMED SKIN REPAIR JOB ONA 55/22	Raised by and date: MORADI 01/06/2022	Other requirements/information: NIL
--	---	--

Item	Description	Technician	* Eng. CRS	Date
5	<p>COMPOSITE REPAIR ON BURNING AREA TO BE PERFORMED</p> <p>REFERENCE: <i>MRM 53.10.11.779.</i></p> <p>MAN: <i>2</i>  <i>6.0</i></p> <p>HOURS: <i>2.0</i> <i>6.0</i></p> <p>TOTAL MAN HOURS: <i>12.0</i> </p> <p>REMARKS: <i>REPAIR ON POLYCARBONATE PERFORMED. FOUND SATIS.</i></p>	 	 	<i>19/6/22</i>
6	<p>PAINTING TO BE PERFORMED</p> <p>REFERENCE: <i>M021A MTC 20.04.05.402</i> </p> <p>MAN: <i>2</i> </p> <p>HOURS: <i>10</i> </p> <p>TOTAL MAN HOURS: <i>20.0</i> </p> <p>REMARKS: <i>PAINTING ON AREA PERFORMED. FOUND SATIS. REFER E.I.E. 11 LINE M502-6</i> </p>	 	 	<i>8/7/22</i>

- The work recorded above has been carried out in accordance with the AW139 Interactive Electronic Technical Publication (IETP), Air-vehicle Maintenance Planning Information (AMPI) - EASA and PT6C-67C Engine Maintenance Manual.
- The work recorded above has been carried out in accordance with the Airbus AS555SN Maintenance Manual, Airbus AS555SN Airworthiness Limitations Section (ALS) and Master Servicing Manual (MSM) and Arrius 1 A Maintenance Manual.
- The work recorded above has been carried out in accordance with Super Lynx Compound Interactive Electronic Technical Publication (CIETP) and CTS800-40N Engine Maintenance Manual.

The work recorded above has been carried out in accordance with the requirements of the Technical Airworthiness Management Manual (TAMM) for the time being in force and in that respect the aircraft / equipment is considered fit for release to service.



CLIENT/OWNER: ROYAL MALAYSIAN NAVY (RMN) AIRCRAFT TYPE: AS555SN REGISTRATION: M502-6 BASE/FACILITY: LUMUT BASE DATE IN: REFER WORKPACK OUT: REFER WORKPACK	SERIAL NO.	HOURS	LDG/CYCLE		WORKSHEET NO:	UMC-M502-6-002
	AIRCRAFT	5719	REFER WORKPACK		WORK/INSP/DESC:	WIRE MESH
	#1 ENGINE:	N/A	REFER WORKPACK		WORKPACK REF:	NOT APPLICABLE
	#2 ENGINE:	N/A	REFER WORKPACK		AJL REF NO:	NOT APPLICABLE
			NG / N1	NF / N2	SHEET:	1 OF 1

REASON FOR RAISING:
WIRE MESH ON LH WINDSHIELD BEAM FOUND BURN DURING PERFORMED SKIN REPAIR JOB ONA 55/22

Raised by and date:
MORADI
19/05/2022

Other requirements/information:
NIL

Item	Part No	Description	Serial Number		Qty	Position	Reason	Lifed Item Information TSN/TSO/DUE/TIMEX	Release Reference
			Off	On					
1.	FG 100	FIBRE CLOTH	-	-	1	-	REPAIR	-	RMN GIN 1987
2.	EA 9309 3. NA	EPOXY ADHESIVE.	-	-	1	-	-	-	GIN 3227

NAME	FIRM	SIGN & APPROVAL	DATE
MORADI	GAM		9/7/22

- The work recorded above has been carried out in accordance with the AW139 Interactive Electronic Technical Publication (IETP), Air-vehicle Maintenance Planning Information (AMPI) - EASA and PT6C-67C Engine Maintenance Manual.
- The work recorded above has been carried out in accordance with the Airbus AS555SN Maintenance Manual, Airbus AS555SN Airworthiness Limitations Section (ALS) and Master Servicing Manual (MSM) and Arrius 1 A Maintenance Manual.
- The work recorded above has been carried out in accordance with Super Lynx Compound Interactive Electronic Technical Publication (CIETP) and CTS800-40N Engine Maintenance Manual.

The work recorded above has been carried out in accordance with the requirements of the Technical Airworthiness Management Manual (TAMM) for the time being in force and in that respect the aircraft / equipment is considered fit for release to service.

SERVICEABLE



GalaxyAerospace
maintenance . repair . overhaul

ITEM ID:	39116		
DESCRIPTION:	EPOXY ADHESIVE		
PART NO:	EA 9309.3NA	QTY:	1.00
SERIAL NO:	N/A	BIN:	RE - -
CONDITION:	NE	LOCATION:	POL GAM HQ
TSN:		TSO:	
SHELF DUE / EXP DATE:	21/10/2022		
JOB ID:	11080	PO ID:	SIGN: 
GIN / ID. NO:	GiN2737	APPROVAL:	
			

GAM/E-005 Rev 2 (01/21)

SERVICEABLE



GalaxyAerospace 
maintenance · repair · overhaul

ITEM ID: 38589

DESCRIPTION: EPOXY ADHESIVE

PART NO: EA 9309.3NA

QTY: 1.00

SERIAL NO:

BIN: RE - -

CONDITION: NE

LOCATION: POL GAM HQ

TSN:

TSO:

SHELF DUE / EXP DATE: 27/01/2024

JOB ID: 0

PO ID: 5063

SIGN:

GIN / ID. NO: GIN3227

APPROVAL:



29/04/2022

GAM/E-005 Rev 2 (01/21)



Certificate



DATE 03/18/2022
 PAGE 1 from 2

Purchase Order: 4592305554
 Date of PO: 29 December 2021
 Sales Order: 412934810
 Delivery Note or Debit memo: 9009646576
 Delivery Note Position: 900001
 Customer No.: 405240
 Ship to Party PO.: PO00020547

Material: LOCTITE EA 9309.3NA QT AERO
 (A)-1QT (B)- 8OZ KIT
 Material Number: 1031775
 Legacy Code : AS9354016
 Bulk Material : 1031772
 Batch No: JH2CAI8080
 Quantity: 48.000 KIT
 Manufacture Date: 27 January 2022
 Specification: HS-AS9354 Revision: B

NOTE: SPECIFICATION REQUIREMENT APPLIES TO AVERAGE RESULT ONLY

Batch Tested	Test Properties	Specification	Individual	Avg	UOM
JH2C008080 HB I#7, 20rpm	Viscosity Brookfield PtA@25C	1500 -3800	1840,1820,1780,	1813	poise
JH2C008080 LVF#1, 60rpm	Viscosity LVF PtB@25C	0.10 -0.20	0.12,0.12,0.12,	0.12	poise
JH2C008080	Pot Life@77F 100 gms	>= 35	35,	35	min
JH2C008080	Tensile Shear@77F Alclad/FPL	>= 4000	5310,5280,5200,5190,5140,4900,	5180	lb/in2
JH2C008080	Tensile Shear@180F Alclad/FPL	>= 725	1070,970,960,680,660,	868	lb/in2
JH2C008080	Tensile Shear@77F Bare/PAA	>= 4000	5650,5530,5600,5580,5560,5490,	5585	lb/in2
JH2C008080	Color Pt A - Pink-Red	-	-	OK	
JH2C008080	Color Pt B - Blue	-	-	OK	
JH2C008080	T-Peel Strength@77F Alclad/PAA	>= 35	59,58,57,56,56,55,	57	lb/in
JH2C008080	Shore D Hardness	70 -120	79,76,76,75,74,	76	
JH2C008080	Beil Peel@77F Bare/PAA	>= 50	105,103,103,103,102,	103	lb/in
JH2C008080	Appearance Pt A - NFM	-	-	OK	
JH2C008080	Appearance Pt B - NFM	-	-	OK	

Comment :

Date of shipment : 03/18/2022

Henkel US Operations Corporation
 Aerospace Group
 2850 Willow Pass Road
 Bay Point, CA 94665-8237 USA

Tel.: (925) 458-8000
 Fax.: (925) 458-8030
 www.henkel.com

Country Of Origin: USA



Safety Data Sheet

Page 1 of 10

LOCTITE EA 9309.3NA AERO PART A QT known as EA 9309.3
NA PART A QUART

SDS No. : 267004
V002.4

Revision: 26.01.2022
printing date: 27.01.2022

Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: LOCTITE EA 9309.3NA AERO PART A QT known as EA 9309.3 NA PART A QUART

Other means of identification: EA 9309.3NA PART A QT

Product code: IDH1119614

Recommended use of the chemical and restrictions on use

Intended use: Part A of 2-K-Epoxy Adhesive

Identification of manufacturer, importer or distributor

Importer: Henkel Singapore Pte Ltd 401 Commonwealth Drive, #03-01/02, Haw Par Technocentre, Singapore. 149598
Phone : +65 62660100 Fax : +65 62661161

E-mail address of person responsible for Safety Data Sheet: ap-ua-psra.sea@henkel.com

Emergency information: FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call CHEMTREC: +1 703-741-5970

Section 2. Hazards identification

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitizer	Category 1
Chronic hazards to the aquatic environment	Category 2

GHS label elements:

Hazard pictogram:



Signal word:

Warning

Section 4. First aid measures

Inhalation:	Move to fresh air, consult doctor if complaint persists.
Skin contact:	Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing. If necessary, see a dermatologist.
Eye contact:	Wash with plenty of water immediately and continue for several minutes, holding eyelid open. Consult a doctor.
Ingestion:	Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.
Indication of immediate medical attention and special treatment needed:	See section: Description of first aid measures

Section 5. Fire fighting measures

Suitable extinguishing media:	Foam, extinguishing powder, carbon dioxide. Fine water spray
Improper extinguishing media:	High pressure waterjet
Specific hazards arising from the chemical:	Danger of decomposition if exposed to heat. See section 10.
Special protection equipment and precautions for firefighters:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.
Additional fire fighting advice:	In case of fire, keep containers cool with water spray.

Section 6. Accidental release measures

Personal precautions:	Avoid contact with skin and eyes. Wear protective equipment. Ensure adequate ventilation.
Environmental precautions:	Do not empty into drains / surface water / ground water.
Clean-up methods:	Remove mechanically. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dispose of contaminated material as waste according to Section 13.

Odor threshold (CA):	No data available.
pH:	No data available.
Melting point / freezing point:	No data available.
Specific gravity:	1.54
Boiling point:	> 100 °C (> 212 °F)
Flash point:	120 °C (248 °F)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Lower explosive limit:	No data available.
Upper explosive limit:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	1.15 g/cm ³
Solubility:	Negligible 20 °C
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
VOC content: (2010/75/EC)	< 3 %

Section 10. Stability and reactivity

Reactivity/Incompatible materials:	Strong oxidizing agents. Reacts with alcohols and amines. Reaction with some curing agents may produce an exothermic reaction which in large masses could cause runaway polymerization.
Chemical stability:	Stable under recommended storage conditions.
Conditions to avoid:	Danger of decomposition if exposed to heat. Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Failure to observe these precautions may result in excessive heat build-up causing an exotherm.
Hazardous decomposition products:	Hydrocarbons Irritating vapors. Polymerization may occur at elevated temperature or in the presence of incompatible materials. May produce fumes when heated to decomposition. Fumes may contain carbon monoxide and other toxic fumes. See section 5.

Section 11. Toxicological information

Oral toxicity:	Acute toxicity estimate (ATE) : > 2.000 mg/kg Method: Calculation method
-----------------------	---

Repeated dose toxicity:

reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	Result	NOAEL=50 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	14 wdaily
	Species	rat
	Method	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Section 12. Ecological information

Ecotoxicity:

Do not empty into drains / surface water / ground water., Toxic to aquatic life with long lasting effects.

Toxicity:

reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	Value type	LC50
	Value	1.75 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	Value type	EC50
	Value	1.7 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	Value type	EC50
	Value	> 11 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	4.2 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	Value type	LC50
	Value	> 100 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Method	other guideline:
Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer 25085-99-8	Value type	LC50
	Value	2 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer 25085-99-8	Value type	EC50
	Value	2 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer 25085-99-8	Value type	EC50
	Value	> 11 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	4.2 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h

Railroad transport RID:

Class: 9
Packing group: III
Classification code: M6
Hazard ident. number: 90
UN no.: 3082
Label: 9
Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (Bisphenol-A Epichlorhydrin resin)

Inland water transport ADN:

Class: 9
Packing group: III
Classification code: M6
Hazard ident. number: 90
UN no.: 3082
Label: 9
Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (Bisphenol-A Epichlorhydrin resin)

Marine transport IMDG:

Class: 9
Packing group: III
UN no.: 3082
Label: 9
EmS: F-A S-F
Seawater pollutant: Marine pollutant
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (Bisphenol-A Epichlorhydrin resin)

Air transport IATA:

Class: 9
Packing group: III
Packaging instructions (passenger): 964
Packaging instructions (cargo): 964
UN no.: 3082
Label: 9
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A
Epichlorhydrin resin)

Further information for transport:

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), A197 (IATA), 2.10.2.7 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

Section 15. Regulatory information

Regulatory Information: Workplace Safety And Health Act (Chapter 354A) Workplace Safety And Health (Approved Codes of Practice) Notification 2013 SS586 Specification for Hazard Communication for hazardous chemicals and dangerous goods Part 1,2,3



Safety Data Sheet

LOCTITE EA 9309.3NA AERO PART B 8OZ known as EA 9309.3 NA PART B 8 OZ

SDS No. : 267006
V002.6

Revision: 17.07.2019
printing date: 27.01.2022

Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: LOCTITE EA 9309.3NA AERO PART B 8OZ known as EA 9309.3 NA PART B 8 OZ
Other means of identification: EA 9309.3NA PART B 8OZ
Product code: IDH1119615
Recommended use of the chemical and restrictions on use

Intended use: Part B of 2-Component Epoxy Adhesive.

Identification of manufacturer, importer or distributor

Importer: Henkel Singapore Pte Ltd 401 Commonwealth Drive, #03-01/02, Haw Par Technocentre, Singapore. 149598
Phone : +65 62660100 Fax : +65 62661161

E-mail address of person responsible for Safety Data Sheet: ap-ua-psra.sea@henkel.com

Emergency information: FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call CHEM TREC: +1 703-741-5970

Section 2. Hazards identification

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Route of Exposure</u>
Acute toxicity	Category 4	Inhalation
Skin corrosion/irritation	Category 1B	
Serious eye damage/eye irritation	Category 1	
Skin sensitizer	Category 1	
Toxic to reproduction	Category 2	

GHS label elements:

Hazard pictogram:



Signal word:

Danger

Section 3. Composition / information on ingredients

Substance or Mixture:
Mixture

Declaration of hazardous chemical:

Hazard component CAS-No.	Content	GHS Classification
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	60- 100 %	Skin corrosion 1B H314 Serious eye damage/eye irritation 1 H318 Skin Sensitization 1 H317
2-Piperazin-1-ylethylamine 140-31-8	1- 10 %	Acute toxicity 4; Oral H302 Acute toxicity 3; Dermal H311 Skin corrosion 1 H314 Skin Sensitization 1 H317 Toxic to reproduction 2 H361f
2,2'-Iminodi(ethylamine) 111-40-0	1- 10 %	Acute toxicity 4; Oral H302 Acute toxicity 2; Inhalation H330 Acute toxicity 4; Dermal H312 Skin corrosion 1B H314 Serious eye damage/eye irritation 1 H318 Skin Sensitization 1 H317 Target Organ Systemic Toxicant - Single exposure 3 H335
2-[2-(3-Aminopropoxy)ethoxy]ethanol 112-33-4	1- 10 %	Skin corrosion 1B H314 Serious eye damage/eye irritation 1 H318
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	1- 10 %	Acute toxicity 4; Inhalation H332 Serious eye damage/eye irritation 1 H318 Skin Sensitization 1 H317 Target Organ Systemic Toxicant - Repeated exposure 2; Inhalation H373
Phenol 108-95-2	0.1- 1 %	Acute toxicity 3; Oral H301 Acute toxicity 3; Inhalation H331 Acute toxicity 3; Dermal H311 Skin corrosion 1B H314 Germ cell mutagenicity 2 H341 Target Organ Systemic Toxicant - Repeated exposure 2 H373 Chronic hazards to the aquatic environment 2 H411
2-(2-Aminoethylamino)ethanol 111-41-1	0.1- 1 %	Skin corrosion 1 H314 Skin Sensitization 1 H317 Toxic to reproduction 1B H360
Triethylenetetramine 112-24-3	0.1- 1 %	Acute toxicity 4; Oral H302

Section 7. Handling and storage

Handling:

See advice in section 8
Ensure good ventilation/suction at the workplace.
Avoid skin and eye contact.
Do not spray onto flames or red-hot objects.
Keep away from sources of ignition - no smoking.

Storage:

Store in sealed original container. Store in a cool, dry place.
Ensure that storage and workrooms are adequately ventilated.
Must be stored in a room with spill collection facilities.
Keep away from heat and direct sunlight.

Section 9. Physical and chemical properties

Appearance:	blue gel. liquid
Odor:	ammoniacal
Odor threshold (CA):	No data available.
pH:	> 7
Melting point / freezing point:	No data available.
Specific gravity:	1
Boiling point:	> 93 °C (> 199.4 °F)
Flash point:	> 93 °C (> 199.4 °F) Estimated
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Lower explosive limit:	No data available.
Upper explosive limit:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	1.01 g/cm ³
Solubility:	Partially miscible (20 °C)
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
VOC content: (2010/75/EC)	< 5 %

Section 10. Stability and reactivity

Reactivity/Incompatible materials:	Reaction with strong oxidants. Reaction with strong acids. Reaction with strong bases Reaction with some curing agents may produce an exothermic reaction which in large masses could cause runaway polymerization.
Chemical stability:	Stable under recommended storage conditions.
Conditions to avoid:	Danger of decomposition if exposed to heat. Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Failure to observe these precautions may result in excessive heat build-up causing an exotherm.
Hazardous decomposition products:	Hydrocarbons Irritating vapors. At higher temperature carbon oxides and nitrogen oxides may be generated. At higher temperature ammonia or amine derivatives may be generated. See section 5. May produce fumes when heated to decomposition. Fumes may contain carbon monoxide and other toxic fumes.

Section 11. Toxicological information

Oral toxicity:	Acute toxicity estimate (ATE) : > 2.000 mg/kg Method: Calculation method
Inhalative toxicity:	Acute toxicity estimate (ATE) : 1.67 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Dermal toxicity:	Acute toxicity estimate (ATE) : > 2.000 mg/kg Method: Calculation method

Acute inhalative toxicity:

2,2'-Iminodi(ethylamine) 111-40-0	Value type	NOEL
	Value	0.07 mg/l
	Exposure time	
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)
2,2'-Iminodi(ethylamine) 111-40-0	Value type	Acute toxicity estimate (ATE)
	Value	0.07 mg/l
	Exposure time	
	Species	
	Method	Expert judgement
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	Value type	LC50
	Value	1.49 - 2.44 mg/l
	Exposure time	4 h
	Species	rat
	Method	EPA OPPTS 870.1300 (Acute inhalation toxicity)
Phenol 108-95-2	Value type	LC50
	Value	> 0.9 mg/l
	Exposure time	8 h
	Species	rat
	Method	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
Phenol 108-95-2	Value type	Acute toxicity estimate (ATE)
	Value	1 mg/l
	Exposure time	4 h
	Species	
	Method	Expert judgement

Acute dermal toxicity:

3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Value type	Acute toxicity estimate (ATE)
	Value	2,500 mg/kg
	Species	
	Method	Expert judgement
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Value type	LD50
	Value	> 2,150 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
2-Piperazin-1-ylethylamine 140-31-8	Value type	LD50
	Value	866 mg/kg
	Species	rabbit
	Method	Draize Test
2,2'-Iminodi(ethylamine) 111-40-0	Value type	LD50
	Value	1,045 mg/kg
	Species	rabbit
	Method	not specified
2-(2-(3-Aminopropoxy)ethoxy)ethanol 112-33-4	Value type	LD50
	Value	6,330 mg/kg
	Species	rabbit
	Method	not specified
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	EPA OPPTS 870.1200 (Acute Dermal Toxicity)
Phenol 108-95-2	Value type	LD50
	Value	660 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
2-(2-Aminoethylamino)ethanol 111-41-1	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	BASF Test
Triethylenetetramine 112-24-3	Value type	LD50
	Value	1,465 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)

Respiratory or skin sensitization:

2-Piperazin-1-ylethylamine 140-31-8	Result	sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
2,2'-Iminodi(ethylamine) 111-40-0	Result	sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
2-(2-(3-Aminopropoxy)ethoxy)ethanol 112-33-4	Result	not sensitising
	Test type	Buehler test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
N-(3-(Trimethoxysilyl)propyl)ethylethylamine 1760-24-3	Result	sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	guinea pig
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Phenol 108-95-2	Result	not sensitising
	Test type	Buehler test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
2-(2-Aminoethylamino)ethanol 111-41-1	Result	sensitising
	Test type	Patch-Test
	Species	guinea pig
	Method	Patch Test
Triethylenetetramine 112-24-3	Result	sensitising
	Test type	Buehler test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)

	Species	mouse
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
2-(2-Aminoethylamino)ethanol 111-41-1	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Triethylenetetramine 112-24-3	Result	positive
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Triethylenetetramine 112-24-3	Result	negative
	Type of study / Route of administration	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
Triethylenetetramine 112-24-3	Result	negative
	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	mouse
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Value type	EC50
	Value	218 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Value type	EC50
	Value	666 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Value type	NOEC
	Value	15.6 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	Value type	EC10
	Value	152.5 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	17 h
	Species	Pseudomonas putida
2-Piperazin-1-ylethylamine 140-31-8	Value type	LC50
	Value	> 100 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Salmo gairdneri (new name: Oncorhynchus mykiss)
2-Piperazin-1-ylethylamine 140-31-8	Value type	EC50
	Value	32 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
2-Piperazin-1-ylethylamine 140-31-8	Value type	NOEC
	Value	31 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
2-Piperazin-1-ylethylamine 140-31-8	Value type	EC50
	Value	495 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
2-Piperazin-1-ylethylamine 140-31-8	Value type	EC10
	Value	100 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	17 h
	Species	
2,2'-Iminodi(ethylamine) 111-40-0	Value type	LC50
	Value	430 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Poecilia reticulata
	Value type	NOEC
	Value	> 10 mg/l
	Acute Toxicity Study	Fish
	Exposure time	28 d
	Species	Casterosteus aculeatus
2,2'-Iminodi(ethylamine) 111-40-0	Value type	EC50
	Value	64.6 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Method	OECD Guideline 210 (fish early life stage toxicity test)

	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	Value type	EC 50
	Value	435 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Phenol 108-95-2	Value type	LC50
	Value	8.9 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians)
	Value type	NOEC
	Value	0.077 mg/l
	Acute Toxicity Study	Fish
	Exposure time	60 d
	Species	Cirrhinus mrigala
	Method	OECD Guideline 215 (Fish, Juvenile Growth Test)
Phenol 108-95-2	Value type	EC50
	Value	3.1 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Ceriodaphnia dubia
	Method	other guideline:
Phenol 108-95-2	Value type	EC50
	Value	61.1 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Pseudokirchneriella subcapitata (reported as Selenastrum capricornutum)
	Method	other guideline:
Phenol 108-95-2	Value type	EC50
	Value	766 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge, industrial
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
2-(2-Aminoethylamino)ethanol 111-41-1	Value type	LC50
	Value	> 243 mg/l
	Acute Toxicity Study	Fish
	Exposure time	48 h
	Species	Leuciscus idus
	Method	DIN 38412-15
2-(2-Aminoethylamino)ethanol 111-41-1	Value type	EC50
	Value	22 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp., Acute Immobilisation Test)
2-(2-Aminoethylamino)ethanol 111-41-1	Value type	EC50
	Value	358 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	DIN 38412-09
	Value type	EC10
	Value	156 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	DIN 38412-09
2-(2-Aminoethylamino)ethanol 111-41-1	Value type	EC10
	Value	82.2 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	17 h
	Species	Pseudomonas putida
	Method	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)

	Degradability	> 60 %
	Method	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Triethylenetetramine 112-24-3	Result	not inherently biodegradable
	Route of application	aerobic
	Degradability	0 %
	Method	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
	Result	not readily biodegradable
	Route of application	aerobic
	Degradability	0 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

Bioaccumulative potential / Mobility in soil:

3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	LogPow	-1.25
	Temperature	25 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
2-Piperazin-1-ylethylamine 140-31-8	LogPow	-1.48
	Temperature	
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
2,2'-Iminodi(ethylamine) 111-40-0	Bioconcentration factor (BCF)	> 0.3 - < 6.3
	Exposure time	42 d
	Species	Cyprinus carpio
	Temperature	
	Method	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
2,2'-Iminodi(ethylamine) 111-40-0	LogPow	-1.58
	Temperature	20 °C
	Method	QSAR (Quantitative Structure Activity Relationship)
2-[2-(3-Aminopropoxy)ethoxy]ethanol 112-33-4	LogPow	-1.47
	Temperature	23 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	LogPow	-1.67
	Temperature	
	Method	not specified
Phenol 108-95-2	Bioconcentration factor (BCF)	17.5
	Exposure time	5 h
	Species	Danio rerio (reported as Brachydanio rerio)
	Temperature	25 °C
	Method	OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)
Phenol 108-95-2	LogPow	1.47
	Temperature	30 °C
	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
2-(2-Aminoethylamino)ethanol 111-41-1	Bioconcentration factor (BCF)	2.1 - 3.7
	Exposure time	42 d
	Species	Cyprinus carpio
	Temperature	25 °C
	Method	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
2-(2-Aminoethylamino)ethanol 111-41-1	LogPow	-1.46
	Temperature	25 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Triethylenetetramine 112-24-3	LogPow	-2.65
	Temperature	
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

Section 13. Disposal considerations

Product

Method of disposal: Special waste incineration with the approval of the responsible local authority.

Air transport IATA:

Class:	8
Packing group:	II
Packaging instructions (passenger):	851
Packaging instructions (cargo):	855
UN no.:	2735
Label:	8
Proper shipping name:	Amines, liquid, corrosive, n.o.s. (Diethylene glycol di-(3-aminopropyl) ether, Substituted piperazine)

Section 15. Regulatory information

Regulatory Information: Workplace Safety And Health Act (Chapter 354A) Workplace Safety And Health (Approved Codes of Practice) Notification 2013 SS586 Specification for Hazard Communication for hazardous chemicals and dangerous goods Part 1.2,3

Global inventory status:

Regulatory list	Notification
EINECS	yes
TSCA	yes
NDSL	yes
PICCS (PH)	yes
ISHL (JP)	yes
NZIOC	yes

Section 16. Other information

Disclaimer:

This Safety Data Sheet has been generated based on SS586. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance. This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.



Dear Customer,

Henkel is committed to creating a sustainable future by promoting opportunities along the entire value chain. If you would like to contribute by switching from a paper to the electronic version of SDS, please contact the local Customer Service representative. We recommend to use a non-personal email address (e.g. SDS@your_company.com).

SERVICEABLE



GalaxyAerospace
maintenance . repair . overhaul

ITEM ID:	46045		
DESCRIPTION:	FIBERGLASS 100gsm 2/2 TW		
PART NO:	FG100	QTY:	2.00
SERIAL NO:		BIN:	--
CONDITION:	NE	LOCATION WAREHOUSE HQ (FENNEC)	
TSN:		TSO:	
SHELF DUE / EXP DATE:			
JOB ID:	0	PO ID:	383
GIN / ID. NO:	RMN-GiN1984	APPROVAL:	
			

GAME-005 Rev 2 (01/21)

DATE: 25/05/2022



MHS Aviation Berhad (226595-U)

EXPORT INVOICE/ADVICE NOTE

NIL/GAL/22003

MOHD ZAIDI

CONSIGNEE'S NAME & ADDRESS
 GALAXY AEROSPACE (M) SDN BHD
 MALAYSIA INTERNATIONAL AEROSPACE
 CENTRE
 SULTAN ABDUL AZIZ SHAH AIRPORT
 47200 SUBANG SELANGOR
 TEL. 037734326

SHIP VIA: ROAD
 AIRWAYBILL/BL NO:
 COUNTRY OF ORIGIN:

PACKAGE NO.:
 DIMENSION:
 3 ITEM

PACKAGE TYPE:
 WEIGHT:
 NETT GROSS

ITEM	QTY	UM	PART NUMBER	SERIAL NO.	APPROVED CERT. NO.	INVOICE NO.	DESCRIPTION	PO# / REMARK	VALUE
1	1	RL	7781		KUL./KTE./07373	1 OF 3	FIBERGLASS CLOTH C/W COPY CERT		
2	2	BX	8576		KUL./KTE./09165	2 OF 3	STRIP CHALK C/W COPY		
3	1	RL				3 OF 3	PLASTIC VACUUM FILM		

SHIPPING DETAILS: MAWB NO:
 HA WB NO:
 SPECIAL INSTRUCTION/REMARKS
 VENDOR: SELL TO GALEXY AEROSPACE

FLIGHT NO:
 ETD DATE:

TOTAL VALUE FOR CUSTOMS PURPOSES ONLY
 MHS Aviation Warehouse

No. 34 Jalan Tera Sentral 2,
 71800 Nilai,
 Negri Sembilan Darul Khusus
 FOR AND ON BEHALF OF MHS AVIATION BERHAD,
 Name: Mohamad Zaidi
 Designation: Storekeeper



MHS Aviation Berhad (226595-U)

EXPORT INVOICE / ADVICE NOTE

MOHD ZAKARIA

INVOICE NO. KLI/KI/09165

DATE: 5-Jun-09

CONSIGNEE'S NAME & ADDRESS
MHS AVIATION BERHAD
ENGINEERING STORE
MHS HANGAR, KERTEH AIRPORT
KERTEH TRENGGANU
ATTN: MD KOH/ZAHARI
TEL: 09-8261122

SHIP VIA	TRUCKING	PACKAGE NO.	DIMENSION	WEIGHT	
				NETT	GROSS
AIRWAYBILL/BL NO.					
COUNTRY OF ORIGIN		03CTN ✓			
		CBOARD			

ITEM	QTY	UM	PART NO.	SERIAL NO.	APPROVED CERT. NO.	INVOICE NO.	DESCRIPTION	GRN NO.	VALUE
1	1	EA	150SG117Q	4342		01 OF 05 ✓	GENERATOR	B0691ACN50	
2	12	EA	8578	80428		02 OF 05 ✓	STRIP CHALK	E20903CN05	
3	1	EA	066-3046-05	06106594			INDICATOR	D10906BR50	
4	1	EA	4026200-972	341351			CONTROL	C23911RN22	
5	1	EA	3000-10A				ELT	D24910RN20	
6	1	EA	WX 1206				POLYURETHANE	L29881CB95	
7	100	EA	MS28774-021				RETAINER	E11906CN20	
8	40	EA	088-03500				INSULATOR	D16914CN05	
9	1	EA	76403-05117-042			03 OF 05 ✓	ROD END ASSY	D22916CN20	
10	1	EA	76650-09807-101	B345-00006		04 OF 05 ✓	SERV VO	E124906RN20	
11	1	EA	101-384004-9	975		05 OF 05 ✓	BLOWER	D1691BRN80	
12	0	EA	EPOCAST 50A1/940				REXIN EPOXY LAMF	L2481CB805	

SHIPPING DETAILS: MAWB NO:
HAWB NO:

FLIGHT NO:
ETD DATE:

TOTAL VALUE FOR CUSTOMS PURPOSES ONLY RM

SPECIAL INSTRUCTION/REMARKS

ITEM NO 1 BAC ITEM RECEIVED - 6 JUN 2009

FOR AND ON BEHALF OF MHS AVIATION BERHAD
Signature: ARBEV SINGH
Freight Forwarding Adminis

VECTOR AEROSPACE

318 Paseo Tesoro, Walnut, CA 91789 USA
 TEL (909)94 8835 FAX (909)94 2584

SHIPPING INVOICE: HS2427
 SOLD TO:
 MHS AVIATION SENDIRIAN BERHAD
 NO. 18, BLOCK H
 TAIPAN 2 DAMANSARA
 JALAN PJU 1A/3, ARA DAMANSARA,
 47301 PETALING JAYA
 SELANGOR DARUL EHSAN
 MALAYSIA

DATE: 5/29/2009
 SHIP TO:
 MHS AVIATION SENDIRIAN BERHAD
 NOTIFY: BOUSTEAD AIR
 LOT C9, MALAYSIA AIRLINES
 FREIGHT FORWARDERS COMPLEX
 43900 SEPANG
 SELANGOR, MALAYSIA

CUSTOMER'S ORDER NO. PLEASE SEE BELOW				SHIP VIA	TERM	F.O.B.	
					NET 60	VECTOR AEROSPACE	
ITEM NO.	QTY	PART NO.	QTY	PART NUMBER	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
MHS/B069140N50/BAC	1	VAHS 5574	0	100001170	8803 30 0010-CIVIL AIRCRAFT PARTS - 9A991 GENERATOR	\$2,500.00	\$2,500.00
S/N: 1542							
1 OF 6 CARDBOARD BOX: DIM: 22X16X16 INCHES GR WT 25LBS (11KG)							
MHS/E20903CN05/KTE	1	VAHS 5801	0	8376	8503 30 0010-CIVIL AIRCRAFT PARTS - 9A991 SCREW "HEAVY"	\$13.85	\$13.85
MHS/D10906RN50/KTE	1	VAHS 5752	0	066-3040-05	8531 20 0020-CIVIL AIRCRAFT PARTS - 7A994 THERMISTOR	\$2,000.00	\$2,000.00
S/N: 80428							
MHS/C24911RN22/KTE	1	VAHS 5717	0	4026706-972	8803 30 0010-CIVIL AIRCRAFT PARTS - 9A991 CONTROL	\$2,000.00	\$2,000.00
S/N: 06106194							
MHS/D24910RN20/KTE	1	VAHS 5801	0	3000-10A	8803 30 0010-CIVIL AIRCRAFT PARTS - 9A991 BOLT	\$130.00	\$130.00
S/N: 341301							
MHS/L29881CB05/KTE	1	VAHS 5801	7	WX 1008	8903 30 0010-CIVIL AIRCRAFT PARTS - 9A991 POLYURETHANE	\$1,058.00	\$1,058.00
MHS/E11905CN20/KTE	1	VAHS 5801	0	MK79774-001	8803 30 0010-CIVIL AIRCRAFT PARTS - 9A991 RETAINER	\$3.35	\$3.35
MHS/D16914CN05/KTE	1	VAHS 5773	0	028-035-00	8802 30 0010-CIVIL AIRCRAFT PARTS - 9A991 INSULATOR	\$70.00	\$70.00
MHS/D27916CN20/KTE	2	VAHS 5801	0	04400-08117-002	8803 30 0010-CIVIL AIRCRAFT PARTS - 9A991 BOLT FINE ARMY	\$450.00	\$450.00
2 OF 6 CARDBOARD BOX: DIM: 24X24X24 INCHES GR WT 40LBS (18KG)							
MHS/D24906RN20/KTE	1	VAHS 5796	0	06650-09907-101	8803 30 0010-CIVIL AIRCRAFT PARTS - 9A991 SERVO	\$2,400.00	\$2,400.00
S/N: B745-00007							
3 OF 6 CARDBOARD BOX: DIM: 19X12X15 INCHES GR WT 24LBS (11KG)							
MHS/D16918RN80/KTE	1	VAHS 5775	0	101-384004-9	8803 30 0010-CIVIL AIRCRAFT PARTS - 9A991 BOLT KFB	\$2,500.00	\$2,500.00
S/N: 975							
4 OF 6 CARDBOARD BOX: DIM: 20X20X20 INCHES GR WT 23LBS (10KG)							
MHS/E11905CN20/KBR	1	VAHS 5846	0	WAS916-13-0101	8802 30 0010-CIVIL AIRCRAFT PARTS - 9A991 CABLE	\$85.00	\$85.00
MHS/B23923CN05/KBR	1	VAHS 5625	0	15185-50	8802 30 0010-CIVIL AIRCRAFT PARTS - 9A991 ALPOQUIN'S UNION	\$487.89	\$487.89
2	2	0	0	2TC68-1	CIRCUIT BREAKER	\$59.00	\$118.00

MATERIAL CERTIFICATION: 5801C

DATE: 05/28/09

SOLD TO:

SHIP TO:

MHS AVIATION SENDIRIAN BERHAD
1ST FLOOR, TERMINAL BUILDING
KERTEH AIRPORT
24300 KERTEH, TERRENGGANU
MALAYSIA

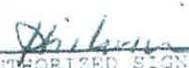
MHS AVIATION SENDIRIAN BERHAD
NOTIFY: BOUSTEAD AIR
LOT C9, MALAYSIA AIRLINES
FREIGHT FORWARDERS COMPLEX
43900 SEPANG
SELANGOR, MALAYSIA

ORDER/INVOICE NO.		SHIP VIA:		TERM		F.O.B.		C.I.F.C.	
E20903CN05		AIRFREIGHT -WESTWIND		NET 60		WALNUT, CA		COLLECT	
ITEM NO.	QTY	LAST	TRIP	QTY	PART NUMBER	DESCRIPTION	UNIT PRICE	EXTENDED PRICE	
		DATE	NO.		SERIAL NUMBER				
1	12	0	12	0	8578	STRIP CALK NEW			

THIS IS TO CERTIFY THAT THE ABOVE LISTED AIRCRAFT MATERIAL IS NEW, UNLESS OTHERWISE IDENTIFIED, AND COMPLIES IN ALL RESPECTS WITH THE MATERIAL ORDERED. IT HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS AND APPROVED DATA.

SHIPMENT COMPLETED

CASE MARKING: MHS/E20903CN05/KTE


AUTHORIZED SIGNATURE
KRIS LORICO

DATE:

14 SEP 2007



MHS Aviation Berhad (226595-U)

EXPORT INVOICE / ADVICE NOTE

INVOICE NO. KUL/KTE/07373

CONSIGNEE'S NAME & ADDRESS
 MHS AVIATION BERHAD
 ENGINEERING STORE
 MHS HANGAR, KERTEH AIRPORT
 KERTEH TRENGGANU
 ATTN: MD KOH/ZAHARI
 TEL: 09-8261122

SHIP VIA TRUCKING	PACKAGE NO.	DIMENSION	PACKAGE TYPE	WEIGHT NETT GROSS
AIRWAYBILL/BL NO.	04CTN		C/BOARD	
COUNTRY OF ORIGIN				

ITEM	QTY	UM	PART NO.	SERIAL NO.	APPROVED CERT NO.	INVOICE NO.	DESCRIPTION	GRN NO.	VALUE	
1	1	EA	76362-09203-102	05821309		01 OF 04	COOLER	G03727RN20		
2	36	EA	NAAS1785-8-26				BOLT	H16709CN20		
3	50	EA	NAS6203-18D				BOLT	H15709CN20		
4	3	EA	MS21025-16	146013			NUT	H16709CN20		
5	1	EA	1/2-2-8-1-301				FLOWMETER	G31711RN20		
6	100	EA	ASNA0078A606	350			RIVET	H20712C192		
7	1	EA	TK2129/935				TEST BOX	G31720TP06		
8	5	EA	300SSDRML2410				LINER	G18711CN05		
9	1	EA	132606-6A			02 OF 04	BEARING	G24726CN05		
10	2	EA	132607-4				BEARING	G24726CN05		
11	4	EA	8040-0025			03 OF 04	DOUBLE FOAM TAPE	G24726CN05		
12	1	EA	7781	4BRL		04 OF 04	FIBERGLASS CLOTH	G19794RN05		
13	1	EA	622-9682-004				PROCESSOR UNIT			
SHIPPING DETAILS: MAWB NO:							FLIGHT NO:	TOTAL VALUE FOR CUSTOMS PURPOSES ONLY		
HAWB NO:							ETD DATE:	RM		

SPECIAL INSTRUCTION/REMARKS

RECEIVED 13 SEP 2007

FOR AND ON BEHALF OF MHS AVIATION BERHAD
 Signature:
 MHDEN SINGH
 Freight Forwarding Administrator

ACROHELIPRO

318 Paseo Tesoro, Walnut, CA 91789 USA
TEL: (909)594 8835 FAX: (909)594 2584

SHIPPING INVOICE : HS2070

DATE: 9/7/2007

TO ORDER: ORDER NO.					SHIP VIA:		FROM:	TITLE:	
PLEASE SEE BELOW							NET 60	ACROHELIPRO	
ITEM NO.	QTY	UNIT	PRICE	EXT	PART NUMBER	DESCRIPTION	UNIT PRICE	EXT PRICE	REMARKS
MHS/G03727RN20/KTE	1	1	0	1	AHGS 3684 76362-39003-102 S/N: 05821509	8803 30 0050 - CIVIL AIRCRAFT PARTS - 9A991 COOLER	\$1,200.00	\$1,200.00	
MHS/H16709CN20/KTE	1	16	0	36	AHGS 3843 NAS1745-9-26	8803 30 0050 - CIVIL AIRCRAFT PARTS - 9A991 BOLT	\$17.40	\$177.60	
	2	50	0	50	NAS6245-140	BOLT	\$2.40	\$111.00	
	3	3	0	3	MS21025-16	NUT	\$22.50	\$67.50	
MHS/G31711RN20/KTE	1	1	0	1	AHGS 3782 1/2-2-F1-207 S/N: 140018	8803 30 0050 - CIVIL AIRCRAFT PARTS - 9A991 FLOWMETER	\$1,000.00	\$1,000.00	
MHS/H20712CI92/KTE	1	100	0	100	AHGS 3782 ASNA00764-66	8803 30 0050 - CIVIL AIRCRAFT PARTS - 9A991 RIVET	\$0.94	\$94.00	
MHS/G31720TP05/KTE	1	1	0	1	AHGS 3782 TK2129/935 S/N: 340	8803 30 0050 - CIVIL AIRCRAFT PARTS - 9A991 TEST BOX	\$1,000.00	\$1,000.00	
MHS/G18711CN05/KTE	1	5	0	5	AHGS 3782 300580RMLR410	8803 30 0050 - CIVIL AIRCRAFT PARTS - 9A991 LINER	\$72.00	\$360.00	
MHS/G24725CN05/KTE	2	2	0	2	AHGS 3751 132606-6A	4 OF 7 CARDBOARD BOX: DIM: 24X24X24 INCHES GR WT 37LBS (17KG)			
	3	2	0	2	132607-1	8803 30 0050 - CIVIL AIRCRAFT PARTS - 9A991 BEARING	\$49.00	\$98.00	
	4	4	0	4	8040-0025	BEARING	\$49.00	\$196.00	
						DOUBLE FOAM TAPE	\$44.00	\$176.00	
MHS/G24725CN05/KTE	1	1	0	1	AHGS 3751 3751	5 OF 7 CARDBOARD BOX: DIM: 16X17X13 INCHES GR WT 12LBS (6KG)			
						8803 30 0050 - CIVIL AIRCRAFT PARTS - 9A991 ELECTRICAL CLOTH	\$44.00	\$44.00	
MHS/G10704RN05/KTE	1	1	0	1	AHGS 3696 622-9692-001 S/N: 43RL	6 OF 7 CARDBOARD BOX: DIM: 46X6X7 INCHES GR WT 33LBS (15KG)			
						8471 80 9000 - CIVIL AIRCRAFT PARTS - 7A994 PROCESSOR UNIT	\$2,070.00	\$2,070.00	
						7 OF 7 CARDBOARD BOX: DIM: 22X16X16 INCHES GR WT 19LBS (9KG)			

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.


AUTHORIZED SIGNATURE
GLENN BLANZA

TOTAL: \$10,000.00
VALUE FOR SHIPPING PURPOSES
COUNTRY OF ORIGIN: USA

HELIPRO
HELIPRO

110 Paseo Toso
Walnut, CA 91789 USA
Tel: 909-894-8835
Fax: 909-894-2584

MATERIAL CERTIFICATION: 3751

DATE: 7/09/05

SOLD TO:

MHS Aviation Berhad
Taman Tun Dr. Ismail,
60000 Kuala Lumpur
Malaysia
NA

SHIP TO:

MHS Aviation Berhad
Taman Tun Dr. Ismail,
60000 Kuala Lumpur
Malaysia
NA
Malaysia


ITEM NO	QTY ORD	LAST SHIP	THIS SHIP	QTY INV	PART NUMBER SERIAL NUMBER	DESCRIPTION CONDITION
1	1	0	1	0	771	FRP CLAMP MOUNT Cond: NEW
2	4	0	4	0	EPX-ATT 160A/B	ADHESIVE Cond: NEW
3	1	0	1	0	102006-1A	BEARING Cond: NEW
4	2	0	2	0	102007-1	BEARING Cond: NEW
5	1	0	1	1	9040-0000	DOUBLE FOAM TAPE Cond: NEW

CASE MARKING: MHS/324725CN05/KTB

THIS IS TO CERTIFY THAT THE ABOVE LISTED AIRCRAFT MATERIAL IS NEW, UNLESS OTHERWISE IDENTIFIED, AND COMPLIES IN ALL ASPECTS WITH THE MATERIAL ORDERED. IT HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS AND ANY APPROVED DATA.

Shipment Completed

MARKING


AUTHORIZED SIGNATURE
Gian Blazza

TEchnical request	TE-2022-AS555-00168	Export date 16 Jun 2022 08:30 AM (UTC)
-------------------	---------------------	---

TE Status Information Requested

Wire mesh found burn

General information

AH contact	Haris Mohd Zainon	Priority	Routine
Open date	25 May 2022 02:17 AM (UTC)	Date Requested By Customer	27 May 2022
Answer Date		Target date for final answer	01 Jun 2022
Previous TE	TE-2021-AS555-00410	Customer complaint	No
T0 - Request date		Contractual date	
Contract name			

Customer Contact Data

Company	Galaxy Aerospace (M) Sdn. Bhd. (maintenance center)
Customer contact	Fharidathul Qhairah Abd Rahim <fharidathul@galaxyaerospace.my>
Secondary company	Royal Malaysian Navy (operator)
Customer reference	

Aircraft Data

A/C type	AS555	A/C version	SN	TTSN (FH)
A/C S/N	5719	Registration	M502-6	Landings

The content of this pdf file may not be up-to-date. Please consult the TE on Technical Request service of your AirbusWorld platform to have the last information as well as the access to the attachments

TEchnical request	TE-2022-AS555-00168	Export date 16 Jun 2022 08:30 AM (UTC)
-------------------	---------------------	---

Sub-Events Information

SE #1

Business Domain	Tech Support	SE open date	25 May 2022 02:17 AM (UTC)
Request type	Analysis of failures and troubleshooting	SE close date	
ATA	53. Fuselage		
ATA sub	1- Front fuselage		
ATA sub sub			

MPN / PN

SN

TSN (FH)

TSO (FH)

DESCRIPTION / REQUEST

The content of this pdf file may not be up-to-date. Please consult the TE on Technical Request service of your AirbusWorld platform to have the last information as well as the access to the attachments

TEchnical request	TE-2022-AS555-00168	Export date 16 Jun 2022 08:30 AM (UTC)
-------------------	---------------------	---

15 Jun 2022 04:34 AM (UTC)

SE# 1 - Tech Support ATA 53
From Fharidathul Qhairroh Abd Rahim (Customer) To Nuramalina Mohamed (AHM)
Cc Hui Chow (AHM) / Shen Wei Lim (AHM) / Daniel Thomas (AHM) / Nor Fitriah Imani Mohd Kasimi (AHM) / Haris Mohd Zainon (AHM) / moradi.galaxyaerospace@gmail.com / tech.services@galaxyaerospace.my / mahadir@galaxyaerospace.my

Dear Amalina,
Please find attached the result for endoscopic test that had been performed. Please note that, there is no result for point no 3 and 4 due to no access point.
Please advise us the repair procedure.
Regards,
Fharidathul

14 Jun 2022 01:04 AM (UTC)

SE# 1 - Tech Support ATA 53
From Nuramalina Mohamed (AHM) To Fharidathul Qhairroh Abd Rahim (Customer)
Cc Hui Chow (AHM) / Shen Wei Lim (AHM) / Daniel Thomas (AHM) / Nor Fitriah Imani Mohd Kasimi (AHM) / Haris Mohd Zainon (AHM) / moradi.galaxyaerospace@gmail.com / tech.services@galaxyaerospace.my / mahadir@galaxyaerospace.my

Dear Fharidathul,

Any update for the inspection required?
Thank you.

Best regards,
Amalina

The content of this pdf file may not be up-to-date. Please consult the TE on Technical Request service of your AirbusWorld platform to have the last information as well as the access to the attachments

TEchnical request	TE-2022-AS555-00168	Export date 16 Jun 2022 08:30 AM (UTC)
-------------------	---------------------	---

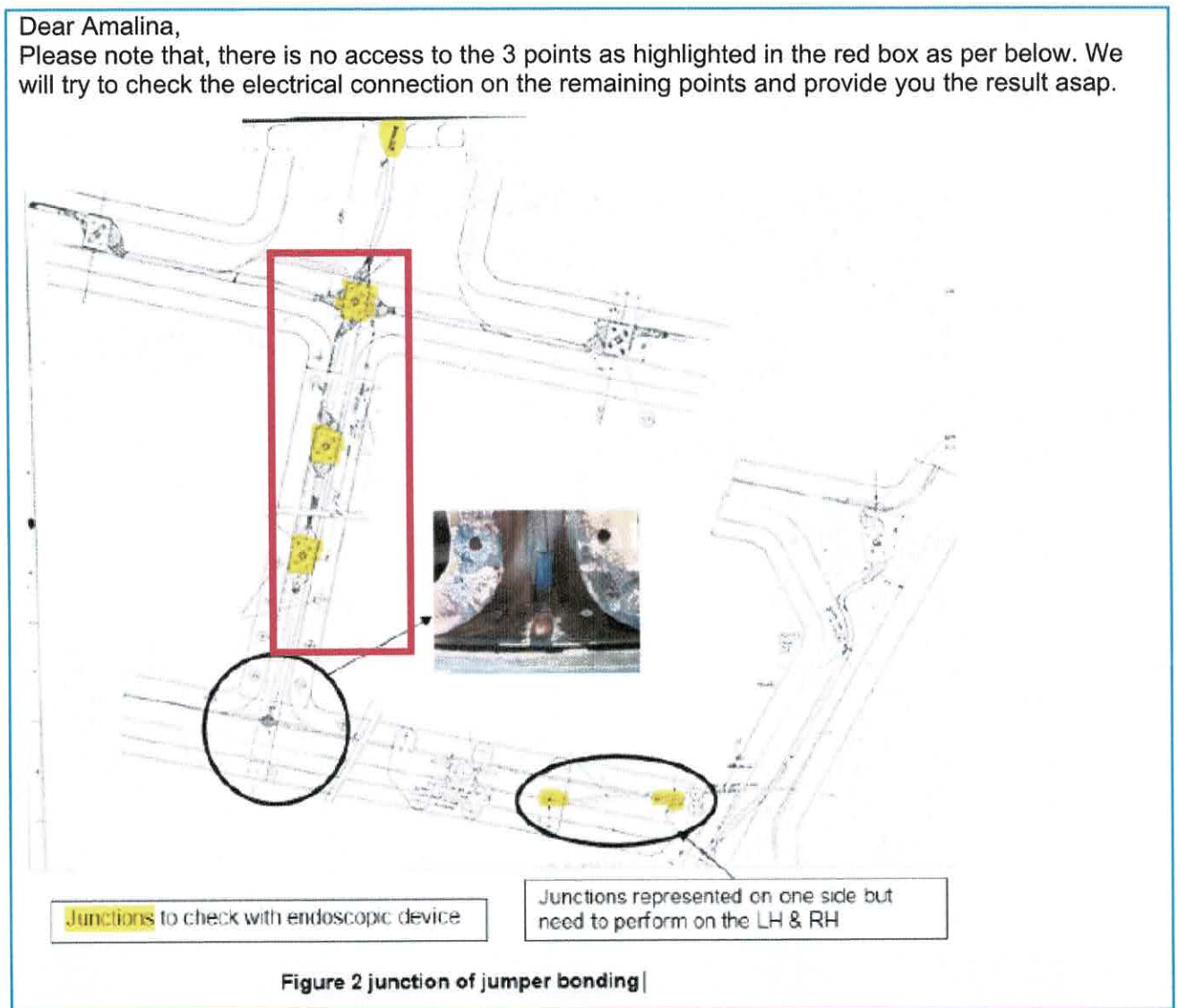
10 Jun 2022 07:56 AM (UTC)

SE# 1 - Tech Support ATA 53

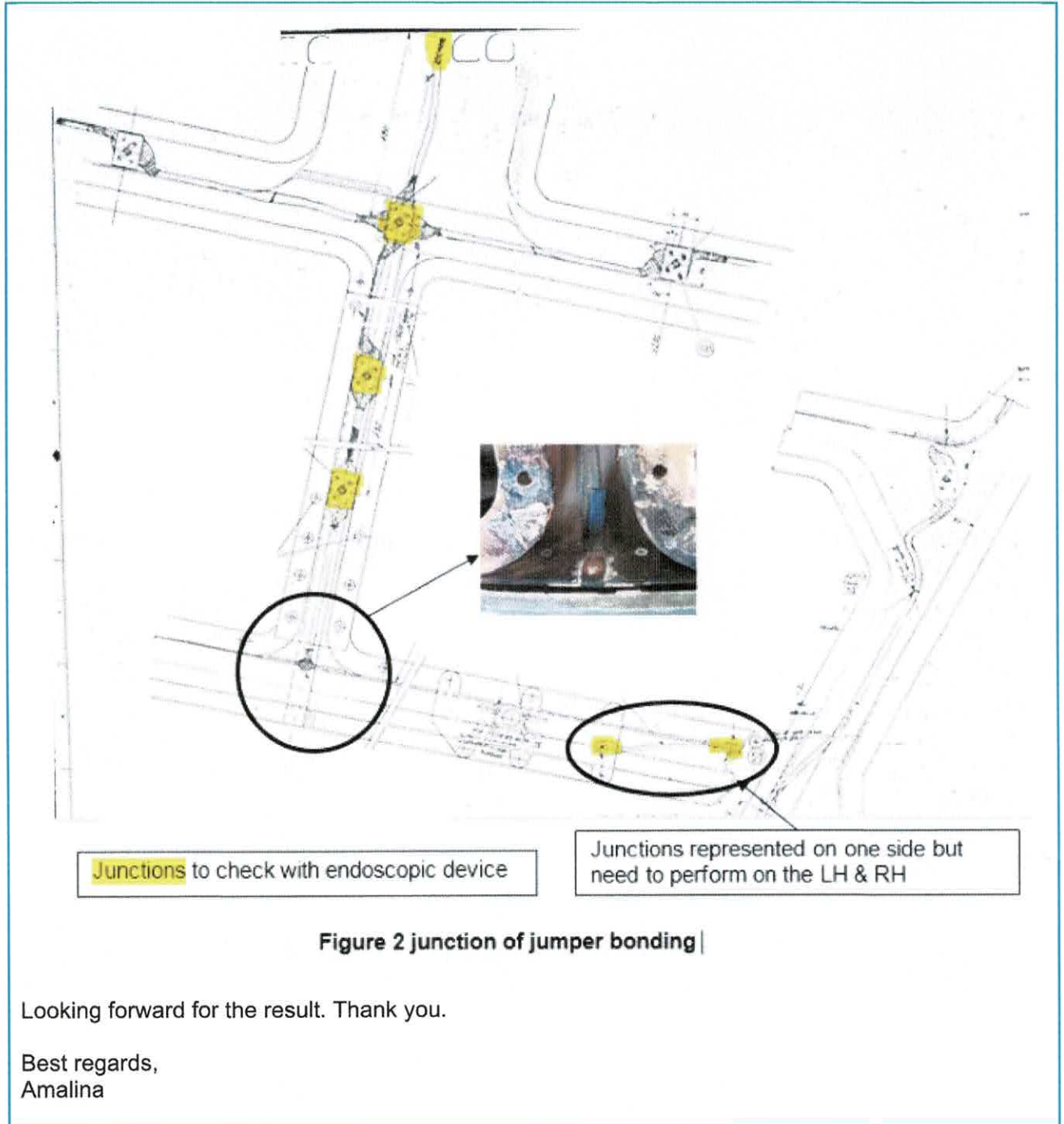
From Fharidathul Qhairroh Abd Rahim To Nuramalina Mohamed (AHM)
(Customer)

Cc Hui Chow (AHM) / Shen Wei Lim (AHM) / Daniel Thomas (AHM) / Nor Fitriah Imani
Mohd Kasimi (AHM) / Haris Mohd Zainon (AHM) /
moradi.galaxyaerospace@gmail.com / tech.services@galaxyaerospace.my /
mahadir@galaxyaerospace.my

Dear Amalina,
Please note that, there is no access to the 3 points as highlighted in the red box as per below. We will try to check the electrical connection on the remaining points and provide you the result asap.



The content of this pdf file may not be up-to-date. Please consult the TE on Technical Request service of your AirbusWorld platform to have the last information as well as the access to the attachments



The content of this pdf file may not be up-to-date. Please consult the TE on Technical Request service of your AirbusWorld platform to have the last information as well as the access to the attachments

This document is the property of AIRBUS HELICOPTERS. It may not be communicated to third parties and/or reproduced without the prior written authorization of AIRBUS HELICOPTERS and its contents may not be disclosed

© AIRBUS HELICOPTERS
all rights reserved

TEchnical request	TE-2022-AS555-00168	Export date 16 Jun 2022 08:30 AM (UTC)
-------------------	---------------------	---

09 Jun 2022 07:20 AM (UTC)

SE# 1 - Tech Support ATA 53
From Fharidathul Qhairah Abd Rahim (Customer) To Nuramalina Mohamed (AHM)
Cc Hui Chow (AHM) / Shen Wei Lim (AHM) / Daniel Thomas (AHM) / Nor Fitriah Imani Mohd Kasimi (AHM) / Haris Mohd Zainon (AHM) / moradi.galaxyaerospace@gmail.com / tech.services@galaxyaerospace.my / mahadir@galaxyaerospace.my / Fharidathul Qhairah Abd Rahim (Customer)

Dear Amalina,
Any update on the repair procedure?

Regards,
Fharidathul

08 Jun 2022 06:27 AM (UTC)

SE# 1 - Tech Support ATA 53
From Fharidathul Qhairah Abd Rahim (Customer) To Nuramalina Mohamed (AHM)
Cc Hui Chow (AHM) / Shen Wei Lim (AHM) / Daniel Thomas (AHM) / Nor Fitriah Imani Mohd Kasimi (AHM) / Haris Mohd Zainon (AHM) / moradi.galaxyaerospace@gmail.com / tech.services@galaxyaerospace.my / mahadir@galaxyaerospace.my

Dear Amalina,

Please find below additional picture as requested. Please note that no burn mark found on the said area as per your last picture.

The content of this pdf file may not be up-to-date. Please consult the TE on Technical Request service of your AirbusWorld platform to have the last information as well as the access to the attachments

TEchnical request	TE-2022-AS555-00168	Export date 16 Jun 2022 08:30 AM (UTC)
-------------------	---------------------	---

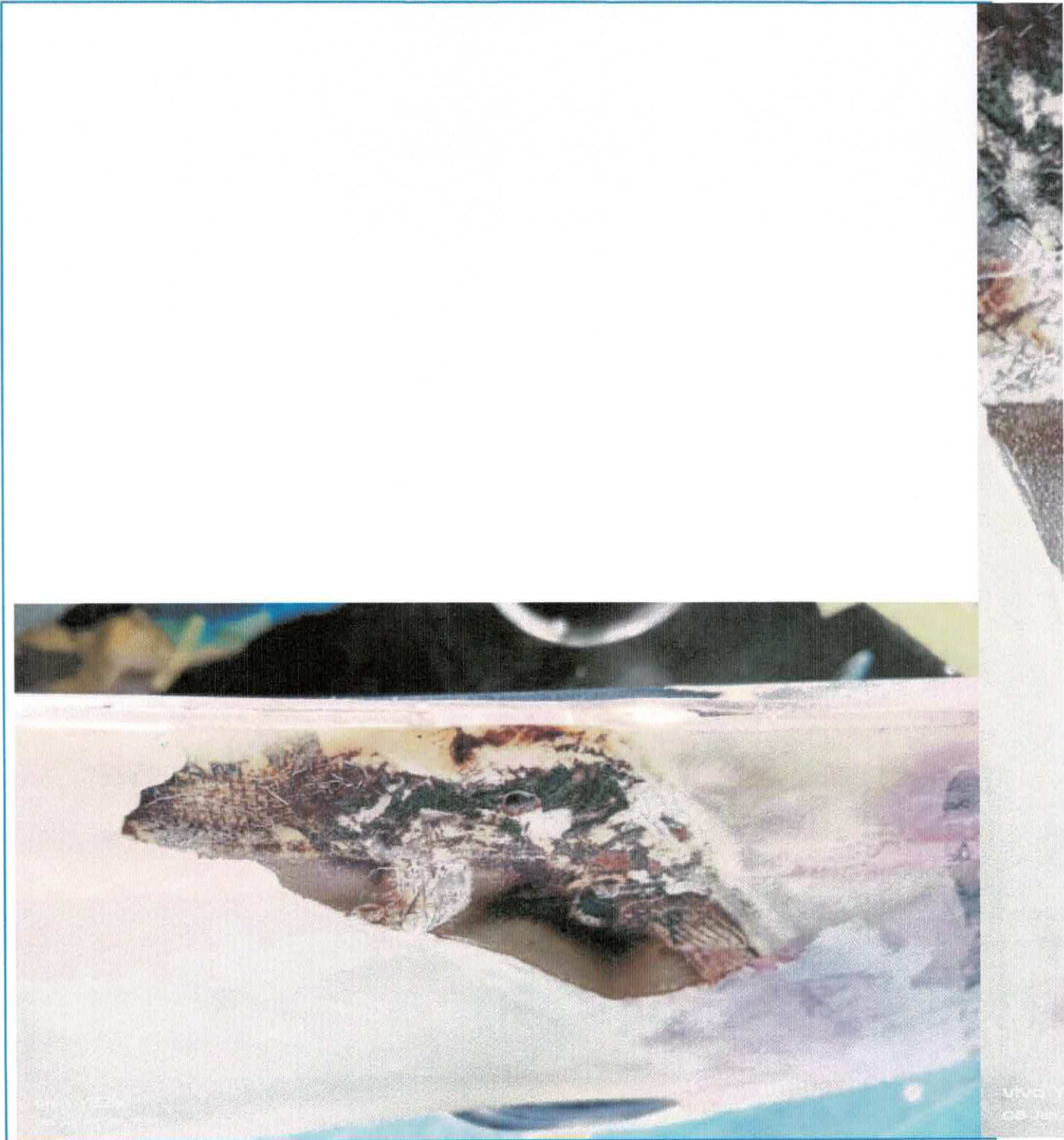


The content of this pdf file may not be up-to-date. Please consult the TE on Technical Request service of your AirbusWorld platform to have the last information as well as the access to the attachments

This document is the property of AIRBUS HELICOPTERS. It may not be communicated to third parties and/or reproduced without the prior written authorization of AIRBUS HELICOPTERS and its contents may not be disclosed

© AIRBUS HELICOPTERS
all rights reserved

TEchnical request	TE-2022-AS555-00168	Export date 16 Jun 2022 08:30 AM (UTC)
-------------------	---------------------	---



The content of this pdf file may not be up-to-date. Please consult the TE on Technical Request service of your AirbusWorld platform to have the last information as well as the access to the attachments

This document is the property of AIRBUS HELICOPTERS. It may not be communicated to third parties and/or reproduced without the prior written authorization of AIRBUS HELICOPTERS and its contents may not be disclosed

© AIRBUS HELICOPTERS
all rights reserved

TEchnical request	TE-2022-AS555-00168	Export date 16 Jun 2022 08:30 AM (UTC)
-------------------	---------------------	---

Appreciate if you could provide us the repair procedure asap.

Regards,
Fharidathul

08 Jun 2022 02:00 AM (UTC)

SE#	1 - Tech Support	ATA	53
From	Nuramalina Mohamed (AHM)	To	Fharidathul Qhairon Abd Rahim (Customer)
Cc	Hui Chow (AHM) / Shen Wei Lim (AHM) / Daniel Thomas (AHM) / Nor Fitriah Imani Mohd Kasimi (AHM) / Haris Mohd Zainon (AHM) / moradi.galaxyaerospace@gmail.com / tech.services@galaxyaerospace.my / mahadir@galaxyaerospace.my		

Dear Fharidathul,

For your information Haris is out of the office with limited access to email. Thus, I will reply on behalf.
Appreciate your kind assistance to take some new pictures with a different angle on the burnt area. With the current pictures provided expert having difficulty identifying if there is an opening in the outer skin. Do you able to see the inside of the omega that strengthens the area from the inside? Also please help to confirm if the area below is burnt too?

The content of this pdf file may not be up-to-date. Please consult the TE on Technical Request service of your AirbusWorld platform to have the last information as well as the access to the attachments

TEchnical request	TE-2022-AS555-00168	Export date 16 Jun 2022 08:30 AM (UTC)
-------------------	---------------------	---



Thank you.

Best regards,
Amalina

The content of this pdf file may not be up-to-date. Please consult the TE on Technical Request service of your AirbusWorld platform to have the last information as well as the access to the attachments

This document is the property of AIRBUS HELICOPTERS. It may not be communicated to third parties and/or reproduced without the prior written authorization of AIRBUS HELICOPTERS and its contents may not be disclosed

© AIRBUS HELICOPTERS
all rights reserved

TEchnical request	TE-2022-AS555-00168	Export date 16 Jun 2022 08:30 AM (UTC)
-------------------	---------------------	---

06 Jun 2022 01:47 AM (UTC)

SE# 1 - Tech Support ATA 53

From Fharidathul Qhairoh Abd Rahim To Haris Mohd Zainon (AHM)
(Customer)

Cc moradi.galaxyaerospace@gmail.com / tech.services@galaxyaerospace.my /
mahadir@galaxyaerospace.my / Hui Chow (AHM) / Daniel Thomas (AHM) / Shen
Wei Lim (AHM) / Nor Fitriah Imani Mohd Kasimi (AHM) / Nuramalina Mohamed
(AHM)

Dear Haris,

Unfortunately, we don't have any detached part of the canopy.

Please advise the repair procedure.

Regards,
Fharidathul

03 Jun 2022 06:54 AM (UTC)

SE# 1 - Tech Support ATA 53

From Haris Mohd Zainon (AHM) To Fharidathul Qhairoh Abd Rahim
(Customer)

Cc moradi.galaxyaerospace@gmail.com / tech.services@galaxyaerospace.my /
mahadir@galaxyaerospace.my / Hui Chow (AHM) / Daniel Thomas (AHM) / Shen
Wei Lim (AHM) / Nor Fitriah Imani Mohd Kasimi (AHM) / Nuramalina Mohamed
(AHM) / Haris Mohd Zainon (AHM)

Dear Fharidathul,

We received feedback from our Airframe specialist regarding this issue and they will start working on solution based on below question.

Do you still have the detached part of the canopy? and

The content of this pdf file may not be up-to-date. Please consult the TE on Technical Request service of your AirbusWorld platform to have the last information as well as the access to the attachments

TEchnical request	TE-2022-AS555-00168	Export date 16 Jun 2022 08:30 AM (UTC)
-------------------	---------------------	---

Does the detached part is still in good condition to be used? (appreciate pictures if yes).

This damage is repairable and depending on your answer to the above question, we will adapt the type of repair according to your answer.

Thank you.

Regards,
Haris
Tech Support AHM

01 Jun 2022 01:28 AM (UTC)

SE# 1 - Tech Support ATA 53
From Fharidathul Qhairah Abd Rahim (Customer) To Haris Mohd Zainon (AHM)
Cc moradi.galaxyaerospace@gmail.com / tech.services@galaxyaerospace.my / mahadir@galaxyaerospace.my / Hui Chow (AHM) / Daniel Thomas (AHM) / Shen Wei Lim (AHM) / Nor Fitriah Imani Mohd Kasimi (AHM) / Nuramalina Mohamed (AHM)

Dear Mr. Haris,
Please find below the additional system modifications with related to AS555SN fleet:
1. Mission System Upgrade (TWS/AIS/FLIR Display) - M502-1, M502-2, M502-5, M502-6
2. Passenger Interphone System - M501-1, M502-2, M502-3, M502-4, M502-5, M502-6
Regards,
Fharidathul

30 May 2022 01:51 AM (UTC)

SE# 1 - Tech Support ATA 53
From Haris Mohd Zainon (AHM) To Fharidathul Qhairah Abd Rahim (Customer)
Cc moradi.galaxyaerospace@gmail.com / tech.services@galaxyaerospace.my / mahadir@galaxyaerospace.my / Hui Chow (AHM) / Daniel Thomas (AHM) / Shen Wei Lim (AHM) / Nor Fitriah Imani Mohd Kasimi (AHM) / Nuramalina Mohamed

The content of this pdf file may not be up-to-date. Please consult the TE on Technical Request service of your AirbusWorld platform to have the last information as well as the access to the attachments

TEchnical request	TE-2022-AS555-00168	Export date 16 Jun 2022 08:30 AM (UTC)
-------------------	---------------------	---

(AHM) / Haris Mohd Zainon (AHM)

Dear Mdm Fharidathul,

Further to this recurring issues which appear on ageing canopies made of polycarbonate and copper mesh, it is possible that this same type of damage could be found in all AS555 RMN fleet.

It is evident of a moderate arcing point between a part of alloy and the copper mesh integrated in the front structure. It began by galvanic corrosion (salt laden and damp environment) added to high return current loads due to the amount of consumers located in the nose area.

Once corroded , the copper mesh becomes unable to sustain the amps and eventually burns at the point of contact with the alloy. This is not an issue due to an insufficient insulation of the electrical panels overhead, but the limits of an ageing canopy exposed to naval conditions and high current loads.

Please help to confirm whether RMN AS555 fleet still kept the same config as of delivery back in year 2002?

If there is additional system modifications involved, appreciate your help to clarify.

We escalated this to our Airframe specialist regarding the best solution to provide.

Thank you.

Regards,
Haris
Tech Support AHM

26 May 2022 09:12 AM (UTC)

SE# 1 - Tech Support ATA 53
From Fharidathul Qhairah Abd Rahim To Haris Mohd Zainon (AHM)
 (Customer)
Cc moradi.galaxyaerospace@gmail.com / tech.services@galaxyaerospace.my /
 mahadir@galaxyaerospace.my / Hui Chow (AHM) / Daniel Thomas (AHM) / Shen
 Wei Lim (AHM) / Nor Fitriah Imani Mohd Kasimi (AHM) / Nuramalina Mohamed
 (AHM)

The content of this pdf file may not be up-to-date. Please consult the TE on Technical Request service of your AirbusWorld platform to have the last information as well as the access to the attachments

TEchnical request	TE-2022-AS555-00168	Export date 16 Jun 2022 08:30 AM (UTC)
-------------------	---------------------	---

Dear Sir,

Please find below the final measurement of the burn area as requested. No further damage found beyond that area.



Regards,
Fharidathul

25 May 2022 08:55 AM (UTC)

SE# 1 - Tech Support ATA 53
From Haris Mohd Zainon (AHM) To Fharidathul Qhairon Abd Rahim (Customer)
Cc moradi.galaxyaerospace@gmail.com / tech.services@galaxyaerospace.my / mahadir@galaxyaerospace.my / Hui Chow (AHM) / Daniel Thomas (AHM) / Shen Wei Lim (AHM) / Nor Fitriah Imani Mohd Kasimi (AHM) / Nuramalina Mohamed (AHM) / Haris Mohd Zainon (AHM)

The content of this pdf file may not be up-to-date. Please consult the TE on Technical Request service of your AirbusWorld platform to have the last information as well as the access to the attachments

Dear Mdm Fharidathul,

Can you help to confirm that the burn marks indication is final?

It seems that the areas on the arrow below are still extensive. Please confirm.



If not, appreciate your help to remove the paint iaw MTC procedures and provide new measurements.

We wait for the confirmation before providing any recommendations.

Thank you.

Regards,
Haris
Tech Support AHM

The content of this pdf file may not be up-to-date. Please consult the TE on Technical Request service of your AirbusWorld platform to have the last information as well as the access to the attachments

TEchnical request	TE-2022-AS555-00168	Export date 16 Jun 2022 08:30 AM (UTC)
-------------------	---------------------	---

25 May 2022 02:38 AM (UTC)

SE# 1 - Tech Support ATA 53
From Nuramalina Mohamed (AHM) To Fharidathul Qhairah Abd Rahim (Customer)
Cc moradi.galaxyaerospace@gmail.com / tech.services@galaxyaerospace.my / mahadir@galaxyaerospace.my / Haris Mohd Zainon (AHM) / Hui Chow (AHM) / Daniel Thomas (AHM) / Shen Wei Lim (AHM) / Nor Fitriah Imani Mohd Kasimi (AHM)

Acknowledgement Message:

Dear customer,

Your TE-2022-AS555-00168 was handled by Nuramalina Mohamed (AHM Technical Support)

AIRCRAFT: AS555 SN 5719 (M502-6)

Airbus Helicopters is committed to answer your request by 01 Jun 2022 at the latest.

Reminder:

Customer Priority selected: Routine

Final Answer Requested Date: 27 May 2022

If the date for the Final Answer does not meet your needs, please contact Nuramalina Mohamed.

May we remind you that it is necessary to open 'Technical Requests' via AirbusWorld before clicking on the link.

25 May 2022 02:17 AM (UTC)

SE# 1 - Tech Support ATA 53
From Fharidathul Qhairah Abd Rahim (Customer) To Haris Mohd Zainon (AHM)
Cc moradi.galaxyaerospace@gmail.com / Nuramalina Mohamed (AHM) / tech.services@galaxyaerospace.my / mahadir@galaxyaerospace.my

The content of this pdf file may not be up-to-date. Please consult the TE on Technical Request service of your AirbusWorld platform to have the last information as well as the access to the attachments