












NOTICE: THIS FORM, DULY UPDATED, MUST FOLLOW THE ASSY

ATA Chapter 95

DESCRIPTION (1) <b>HOIST CORE</b>	P/N (2) <b>3G2591V01532</b>	S/N (3) <b>40543</b>	MANUFACTURER NAME (4) <b>GOODRICH</b>	ASSEMBLY DATE (5) <b>01/2017</b>	RETIREMENT LIFE / TIME LIMITS (6) <b>10 Y OH I/D</b>
	P/N (7)	S/N (8)	MANUFACTURER NAME (9)	ASSEMBLY DATE (10)	RETIREMENT LIFE / TIME LIMITS (11) <b>111 hoist OH</b>
	P/N (7)	S/N (8)	MANUFACTURER NAME (9)	ASSEMBLY DATE (10)	RETIREMENT LIFE / TIME LIMITS (11)

NOTE

### ASSEMBLY HISTORICAL RECORD

INSTALLATION						REMOVAL								
DATE (12)	A/C		ASSY			ORGANIZATION, STAMP AND SIGNATURE (18)	DATE (19)	A/C		ASSY			REASON OF REMOVAL (24)	ORGANIZATION, STAMP AND SIGNATURE (25)
	R. MARKS (13)	TOTAL FLIGHT HOURS (15)	TOTAL HOURS (16)	TIME SINCE OH (17)	TOTAL LANDINGS (15)			TOTAL LANDINGS (20)	ACTUAL TOTAL HOURS (21)	TOTAL HOURS WITH PENALTY FACTOR (22)	TIME SINCE OH (23)			
		S/N (14)	TOTAL LIFTS/CYCLES (15)	TOTAL LIFTS/CYCLES (16)	LANDS SINCE OH (17)			TOTAL LIFTS/CYCLES (15)	ACTUAL TOTAL LIFTS/CYCLES (21)	TOTAL LANDS WITH PENALTY FACTOR (22)	LANDINGS SINCE OH (23)			
09/2019	9m-pme 31855	10.55	00.00	NEW	MOTOR HOURS	Leonardo Helicopters 	03 DEC 2019	16:55 30	6:00 2.3	- -	NEW NEW	DISASSEMBLED TO TRANSPORT BY AIR		
01 JAN 2021 (9m-pme-20) -2789	9m-pmd 31809	434:05 816	6:00 3.2	NEW NEW		GAM 	04 JAN 2021 (umc-pmd-21-002)	469:05 827	20:40 3.5	- -	NEW NEW	OPERATION REQUIREMENT.	GAM 	
22 APR 2021 (9m-pme-6164)	9m-pme 31855	537:15 777	20:40 3.5	NEW NEW		GAM 	30 APR 2021 (umc-pme-21-018)	548:40 797	32:05 2.6	- -	NEW NEW	OPERATION REQUIREMENT.	GAM 	
09 SEP 2021 (9m-pme-8014)	9m-pme 31855	746:45 1091	32:05 2.6	NEW NEW		GAM 	29 SEP 2021 (umc-pme-21-049)	791:15 1206	76:35 4.9	- -	NEW NEW	OPERATION REQUIREMENT	GAM 	
08 NOV 2021 (9m-pmd-8663)	9m-pmd 31809	947:50 1850	76:35 4.9	NEW NEW		GAM 	10 NOV 2021 (umc-pmd-21-064)	956:20 1856	85:05 4.9	- -	NEW NEW	OPERATION REQUIREMENT.	GAM 	
10 NOV 2021 (umc-pmf-21-044)	9m-pmf 31913	252:48 418	85:05 4.9	NEW NEW		GAM 	21 DEC 2021 (umc-pmf-21-057)	286:28 534	119:45 5.3	- -	NEW NEW	OPERATION REQUIREMENT.	GAM 	





# LOG CARD

NOTICE: THIS FORM, DULY UPDATED, MUST FOLLOW THE ASSY

## Section 1

ATA Chapter **95**

DESCRIPTION (1) <b>HOIST CORE</b>	P/N (2) <b>3G2591V01532</b>	S/N (3) <b>40543</b>	MANUFACTURER NAME (4) <b>GOODRICH</b>	ASSEMBLY/MANUFACTURING DATE (5) <b>01/2017</b>	RETIREMENT LIFE / TIME LIMITS (6) <b>10 YEARS OH I/D</b>
	P/N (7)	S/N (8)	MANUFACTURER NAME (9)	DATE OF CHANGE (10)	RETIREMENT LIFE / TIME LIMITS (11) <b>111 HOIST OH</b>
	P/N (7)	S/N (8)	MANUFACTURER NAME (9)	DATE OF CHANGE (10)	RETIREMENT LIFE / TIME LIMITS (11)

NOTES  
CONTINUED FROM ORIGINAL LOGCARD PAG. 1 OF 4

### ASSEMBLY HISTORICAL RECORD

INSTALLATION						REMOVAL						
DATE (12)	A/C R. MARKS (13) S/N (14)	ASSY			ORGANIZATION, STAMP AND SIGNATURE (18)	DATE (19)	ASSY			REASON FOR REMOVAL (24)	ORGANIZATION, STAMP, AND SIGNATURE (25)	
		TOTAL FLIGHT HOURS (15)	TOTAL HOURS (16)	TIME SINCE OH (17)			TOTAL FLIGHT HOURS (20)	ACTUAL TOTAL HOURS (21)	TOTAL HOURS WITH PENALTY FACTOR (22)			TIME SINCE OH (23)
		TOTAL LANDINGS (15)	TOTAL LANDINGS (16)	LANDINGS SINCE OH (17)			TOTAL LANDINGS (20)	ACTUAL TOTAL LANDINGS (21)	TOTAL LANDINGS WITH PENALTY FACTOR (22)			LANDINGS SINCE OH (23)
15 MAR 2022 (9M-PMF-10177)	9M-PMF	394:50	118:45	NEW	GAM 	28 MAR 2022	418:40	142:35	-	NEW	OPERATION REQUIREMENT	GAM 
	31913	769	5.3	NEW		(UMC-PMF-22-015)	798	6.0	-	NEW		
		-	-	-			-	-	-	-		
05 JUL 2022 (UMC-PMD-22-058)	9M-PMD	1349:35	142:35	NEW	GAM 	07 JUL 2022	1356:55	149:55	-	NEW	OPERATION REQUIREMENT	GAM 
	31809	2377	6.0	NEW		(UMC-PMD-22-060)	2387	337	-	NEW		
		-	-	-			-	-	-	-		
13 AUG 2022 (9M-PMD-12341)	9M-PMD	1399:45	149:55	NEW	GAM 	03 OCT 2022	1441:10	191:20	-	NEW	OPERATION REQUIREMENT	GAM 
	31809	2461	5.9	NEW		(UMC-PMD-22-089)	2542	418	-	NEW		
		-	-	-			-	-	-	-		
26 OCT 2022 (9M-PMD-22-097)	9M-PMD	1469:55	191:20	NEW	GAM 	08 NOV 2022	1494:10	215:35	-	NEW	OPERATION REQUIREMENT	GAM 
	31809	2590	418	NEW		(UMC-PMD-22-100)	2639	467	-	NEW		
		-	-	-			-	-	-	-		



1. Approving Civil Aviation Authority / Country:  <b>FAA / UNITED STATES</b>		2. <b>AUTHORIZED RELEASE CERTIFICATE</b>  <b>FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG</b>				3. Form Tracking Number:  0000000000008146579 33060904 Page 1 of 1	
4. Organization Name and Address: GOODRICH CORPORATION 2727 East Imperial Hwy. Brea, CA 92821 TEL: 714-984-1461 FAX: 714-984-1675 Repair Station # A04R057M				5. Work Order/Contract/Invoice Number:  4802194949			
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:		11. Status/Work:	
01	RESCUE HOIST ASSY DC PWD	44316-12-104	1	40543		REPAIRED	
12. Remarks: Purpose: Approval for Return to Service Batch no. / Lot ID:0027751170 Repaired on WO 43776247 IAW CMM 25-60-06-3. Complied with the following service bulletins: EASA AD 2015-0226R5, SB 44316-850-01, ASB 44301-10-18, SB 44316-600-3-03, SB 44316-602-101-02, SIL-2018-03, SIL-2019-02, SIL-2019-05. Installed Pop. 2 clutch PN 44314-398-101, SN: L90-218, clutch slip: 1346, TSN: 0000 hours. Installed rescue hoist cable PN 42325-298, SN: S91-17, TSN: 0000 hours. Hoist TSN: 003.1 Hours. Unit passed the acceptance testing requirements as defined by CMM 25-60-06-3. Refer to the attached strip report for the shop findings report. CPN: 3G2591V01532 (LEONARDO MALAYSIA SDN BHD) Export airworthiness approval-this article meets the special requirements of MALAYSIA PMA  Certifies that the work specified in block 11/12 was carried out in accordance with EASA Part 145 and in respect to that work the [product/article] is considered ready for release to service under EASA Part 145 Approval No. EASA145.4649							
13a. Certifies the items identified above were manufactured in conformity to:  <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 12  Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43 and in respect to that work, the items are approved for return to service.				
13b. Authorized Signature:		13c. Approval / Authorization No.:	14b. Authorized Signature: 		14c. Approval / Certificate No.: AO4R057M		
13d. Name (Typed or Printed):		13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed): NASI TEHRANI		14e. Date (dd/mmm/yyyy): 26 OCT 2020		
<b>User / Installer Responsibilities</b>							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.  Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.  Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

# CERTIFICATE OF CONFORMANCE

Goodrich Corporation  
2727 East Imperial Hwy.  
Brea, CA 92821



Date: 23-OCT-2020 Page 1 of 2

Delivery No:  
33060904

Customer PO/Item:  
4802194949

**Sold-to Address: 81762**

LEONARDO MALAYSIA SDN BHD  
SULTAN ABDUL AZIZ SHAH AIRPORT  
LOT 1 & 2 HELICOPTER CENTER  
47200 SUBANG  
MALAYSIA

**Ship-to Address: 81762**

LEONARDO MALAYSIA SDN BHD  
SULTAN ABDUL AZIZ SHAH AIRPORT  
LOT 1 & 2 HELICOPTER CENTER  
47200 SUBANG  
MALAYSIA

Item	Material	Description	Total Qty	UOM	Batch Nbr	Country of Origin
Sub	Material	Description	Batch Qty	UOM	Batch Nbr	Country of Origin
10	44316-12-104	RESCUE HOIST ASSY DC PWD	1	EA	0027751170	US

Serial number(s): 40543

Customer Part Number: 3G2591V01532

Sales Order Number/Item: 7867649/001030

Certificate of Conformance:

THIS HOIST ASSY. CONTAINS:NEW POP 2 CLUTCH ASSY.

PART NUMBER: 44314-398-101

SERIAL NUMBER: L90-218

TO BE INCLUDED IN SHIPMENT CUSTOMER OWNED:

1-BOOM PN 44316-507 SN 00204

2-BOLTS

2-NUTS

1-WASHER

1-COTTER PIN

1-BRACKET SN MM167

1-HARNESS PN 44316-792-102 SN A0203

1-HARNESS PN 44316-780-102 SN A0203

1-HARNESS PN 44316-771-102 SN A0215

1-HARNESS PN 44316-784 SN A0199

1-FAIRING/CAMERA ASSEMBLY WITH HARNESS  
BUNDLE

WE HEREBY CERTIFY THAT THE ITEMS OR MATERIAL COVERED BY THIS DOCUMENT HAVE BEEN INSPECTED AND TESTED AND CONFORM TO THE APPROVED SPECIFICATIONS RELATIVE HERETO. THIS IS SUBSTANTIATED EITHER BY OUR OWN INSPECTION AND TEST, OR BY SATISFACTORY DOCUMENTARY EVIDENCE FROM THE ORIGINAL SOURCE OF SUPPLY.



## TEARDOWN REPORT

SIS-CA MRO  
 SIS-CA HOIST & WINCH MRO  
 2727 EAST IMPERIAL HWY  
 BREA CA 92821-6713  
 USA



Repair Station #AO4R057M

<b>Work Order</b>	43776247	<b>Description</b>	RESCUE HOIST ASSY DC PWD	<b>Date Rec'd</b>	04/03/2020
<b>Input Part</b>	44316-12-104	<b>Input Serial</b>	40543		
<b>Cust Part</b>	3G2591V01532	<b>Cust Serial</b>	40543		

**Service Bulletins - Outgoing**  
 ZMT SIL-2019-05

**Service Bulletins - Outgoing**  
 ZMT 44316-602-101-02

<b>Components :</b>						
Order	Material	Description	Req Qty	Issued	Reason Code	Stor Loc
43776247	MP200	PLATE, MARKER, IDENTIFICATION, WHITE, NYLON	1	1	SB44316-850-01	PDS1
43776247	42315-190	SET SCREW, CABLE DRUM	1	1	STRIPPED THREADS	PDS1
43776247	42277-289	LOCK SPRING- CARRIER	1	1	ELONGATED	PDS1
43776247	44314-398-101	OVERLOAD CLUTCH ASSEMBLY	1	1	SB44301-10-22	PDS1
43776247	A8708	RELIEF VALVE, BIDIRECTION	1	1	Rejected	PDS1
43787091	1814-8-SS-PS-S-12A	SCREW, PAN HEAD	8	8	SB44316-600-3-03	PDS1
43787091	44316-865	PCB ASSEMBLY, VOLTAGE CLAMP BD	2	2	SB44316-600-3-03	PDS1
43787091	44311-731-8	INSULATOR, THERMALLY	2	2	SB44316-600-3-03	PDS1
43787091	44311-731-5	INSULATOR, THERMALLY	4	4	SB44316-600-3-03	PDS1
43787091	00462148997	RESISTOR, POWER, 200 WATT, SOT-227B	4	4	SB44316-600-3-03	PDS1

# CERTIFICATE OF CONFORMANCE

Goodrich Corporation  
2727 East Imperial Hwy.  
Brea, CA 92821

TEL: 714-984-1461 FAX: 714-984-1675

Delivery No:  
33060904

Page 2 of 2

Customer PO/Item:  
4802194949



*[Handwritten Signature]*  
\_\_\_\_\_  
AUTHORIZED SIGNATURE

*10-26-2020*  
\_\_\_\_\_  
DATE



**COPY** **GOODRICH**

COMPONENT MAINTENANCE MANUAL  
PART NUMBER 44316-10 AND 44316-12

Figure 108. Test Datasheet (Sheet 1 of 8)

Goodrich P/N: 44316-12-104 Rev.: Y S/N: 40543 Date: 10-15-20  
 Customer Part Number: 392591V01532 Work Order No.: 43776247  
 Motor/Controller P/N: 44316-602-101 S/N: 00401 Ambient Air Temp: 70°F or °C  
 Test Stand No.: G

PARA TEST	MEASUREMENT	LIMIT	ACCEPT	REJECT
1.A.(7) Overload Clutch Test		Test performed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1.A.(8) Automatic Brake Assembly Test		Test performed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4.A Cable Foul Switch Test</b>				
<b>4.A.(1) Cable Foul No Operation (for all hoists except 44316-12-102)</b>				
e) Hoist reeling operation		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pendant:				
CBL indicator		Illuminates	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SLOW & TEMP indicators		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g) Pendant:				
CBL indicator		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SLOW & TEMP indicators		Stop Blinking & not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h) Hoist		No operation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pendant CBL indicator		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
i) Pendant CBL indicator		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
j) Hoist		Operates	<input checked="" type="checkbox"/>	<input type="checkbox"/>
l) Hoist reeling operation		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pendant:				
CBL indicator		Illuminates	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SLOW & TEMP indicators		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
n) Pendant:				
CBL indicator		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SLOW & TEMP indicators		Stop Blinking & not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
o) Hoist		No operation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pendant CBL indicator		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
p) Pendant CBL indicator		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
q) Hoist		Operates	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4.A.(2) Cable Foul No Operation (for 44316-12-102)</b>				
e) Hoist reeling operation		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pendant:				
CBL indicator		Illuminates	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SLOW & TEMP indicators		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g) Pendant:				
CBL indicator		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SLOW & TEMP indicators		Stop Blinking & not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h) Hoist		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pendant CBL indicator		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
i) Pendant CBL indicator		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hoist		Operates at normal Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
k) Hoist reeling operation		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pendant:				
CBL indicator		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SLOW & TEMP indicators		Blink alternately	<input checked="" type="checkbox"/>	<input type="checkbox"/>
m) Hoist		Operates at approx. 35 ft/min (11 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pendant CBL indicator		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>

25-60-06-3



COMPONENT MAINTENANCE MANUAL  
PART NUMBER 44316-10 AND 44316-12

Figure 108. Test Datasheet (Sheet 2 of 8)



Goodrich P/N: 44316-12-104A Rev.: Y S/N: 40543 Date: 10-15-20  
Work Order No.: 43776247

PARA	TEST	MEASUREMENT	LIMIT	ACCEPT	REJECT
n)	Pendant CBL indicator Hoist		Not illuminated Operates at normal speed	<u>N/A</u>	<u>A</u>
4.B	<b>DC Bonding Resistance Test</b>				
(3)	Connector J1 to housing	<u>3.11 m</u> Ohms	20.0 mOhms Max.	<u>✓</u>	<u>    </u>
	Connector J2 to housing	<u>2.92 m</u> Ohms	20.0 mOhms Max.	<u>✓</u>	<u>    </u>
	Connector J3 to housing	<u>1.13 m</u> Ohms	20.0 mOhms Max.	<u>✓</u>	<u>    </u>
4.C	<b>Observations/Tests</b>				
4.C.(3)	<b>Cable Install</b>				
(a)	Traction System		Maintains tension	<u>✓</u>	<u>    </u>
	Internal Cable Tension		Cable taut	<u>✓</u>	<u>    </u>
(b)	Cable inspection		No snags/broken wires	<u>✓</u>	<u>    </u>
(c)	Cable Management	Wraps evenly <input checked="" type="checkbox"/> No fouling <input checked="" type="checkbox"/> No kinking <input checked="" type="checkbox"/> No bunching <input checked="" type="checkbox"/> No overlay <input checked="" type="checkbox"/>		<u>✓</u>	<u>    </u>
(d)	Hour Meter (Initial Reading)	<u>002.3</u> hrs			
(e)	Cable Extremities Indication	Initial/final 20' of Cable Cable Part Number <u>42325-298</u> Cable Serial Number <u>591-17</u>	Color orange	<u>✓</u>	<u>    </u>
4.C.(4)	<b>Indicator Test</b>				
(a)	Pendant: All indicators		flash 3 times, then TEMP continues flashing	<u>✓</u>	<u>    </u>
	Cable Payout Display: All indicators		flash 3 times, then TEMP continues flashing	<u>✓</u>	<u>    </u>
(b)	Pendant TEMP indicator Cable Payout Display TEMP indicator		stops flashing stops flashing	<u>✓</u> <u>✓</u>	<u>    </u> <u>    </u>
(c)	<b>For all hoists except 44316-12-102</b>				
1)	Pendant WTR indicator		Illuminated	<u>✓</u>	<u>    </u>
2)	Pendant WTR indicator		Not illuminated	<u>✓</u>	<u>    </u>
(d)	<b>For 44316-12-102 hoists</b>				
1)	Pendant GEN indicator		Not illuminated	<u>N/A</u>	<u>    </u>
2)	Pendant GEN indicator Return GENOUT switch to ON position		Illuminated	<u>N/A</u>	<u>    </u>
4.C.(5)	<b>Hoist Fan (for 44316-12-101 hoists only)</b>				
(b)	Hoist Fan		Operating properly	<u>N/A</u>	<u>    </u>





COMPONENT MAINTENANCE MANUAL  
PART NUMBER 44316-10 AND 44316-12

Figure 108. Test Datasheet (Sheet 3 of 8)



Goodrich P/N: 44316-12-104

Rev.: Y

S/N: 40543 Date: 10-15-20

Work Order No.: 43776247

PARA TEST	MEASUREMENT	LIMIT	ACCEPT	REJECT
<b>4.C.(6) Overtemperature Function</b>				
(c) Pendant TEMP indicator		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hoist Cable Speed	<u>88</u> ft/min	Approx. 125 ft/min (38 m/min)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(e) Pendant TEMP indicator		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(g) Hoist Cable Speed		Increase to full speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4.C.(7) Cable Cut Harness Test</b>				
(a) SQUIB A lamp		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SQUIB B lamp		Not Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(b) SQUIB A lamp		Not Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SQUIB B lamp		Illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4.D Extended Limit Switch Adjustments</b>				
<b>4.D.(1) Adjust "DOWN-ALL-STOP" Limit Switches S1 and S2</b>				
(a) Switches S11 and S12 ON (Reel out)				
Cable on drum		3 to 3¼ wraps	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(b) Rotate Cam of S1 and S2		S1 & S2 actuate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(f) Switch S12 ON (Reel out)				
S1 and S2 operate		Hoist stops rotating	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Minimum 2½ cable wraps	<input type="checkbox"/>	<input type="checkbox"/>
(g) Switch S11 and S12 ON		Cable reels out	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(h) Release S11		Cable stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4.D.(2) Adjust "FULL-OUT" Limit Switches S3 and S4</b>				
(a) Switch S11 ON				
Cable on drum		4 to 4½ wraps	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(b) Rotate Cam of S3 and S4		S3 & S4 actuate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(f) Reel out, S3 and S4 operate		Cable reel-out stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		3½ cable wraps Min.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(g) Switch S12 ON		Cable reels out	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Reel out at least ¼ revolution		S1 and S2 actuate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cable reel out		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4.D.(3) Adjust "UP/DOWN-SLOW" Intermediate Deceleration Limit Switches S5 and S6</b>				
(a) Switch S11 ON (Reel in)				
Cable on drum		7 - 7¼ wraps	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(b) Rotate Eyelid Cam of S5 and S6		S5 & S6 actuate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(d) Reel out at full speed		S5 & S6 operate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pendant SLOW light		Illuminates	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hoist speed		Decelerates	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cable Speed Deceleration		Occurs before	<input type="checkbox"/>	<input type="checkbox"/>
		S3 and S4 actuate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pendant SLOW light		Not illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4.E Feet/Meters Display Check</b>				
(3) Pendant CABLE LENGTH display		285 to 290 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cable Payout Display CABLE PAYOUT		285 to 290 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(5) Pendant CABLE LENGTH display		86.8 to 88.4 meters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cable Payout Display CABLE PAYOUT		86.8 to 88.4 meters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(8) Pendant CABLE LENGTH display		98 to 102 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cable Payout Display CABLE PAYOUT		98 to 102 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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PART NUMBER 44316-10 AND 44316-12



Figure 108. Test Datasheet (Sheet 4 of 8)

Goodrich P/N: 44316-12-104 Rev.: Y S/N: 40543 Date: 10-15-20  
Work Order No.: 43776247

PARA	TEST	MEASUREMENT	LIMIT	ACCEPT	REJECT
(10)	Pendant CABLE LENGTH display		0 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Cable Payout Display CABLE PAYOUT		0 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(12)	Pendant CABLE LENGTH display		0.0 meters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Cable Payout Display CABLE PAYOUT		0.0 meters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(14)	Pendant CABLE LENGTH display		0 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Cable Payout Display CABLE PAYOUT		0 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4.G Temporary Retracted Limit Switch Adjustments</b>					
(3)	S7 and S8		Actuate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Hoist cable velocity	<u>35</u> ft/min	35 ± 5 ft (10.7 ± 1.5m)/min	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(6)	S5 and S6		Actuate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Hoist cable velocity	<u>85</u> fpm	75 ± 15ft (23 ± 4.6m)/min	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4.H Pilot and Operator Command Override Tests</b>					
(2)	Cable reeling direction		IN at 80 ft/min to "OUT" at 180 – 220 ft/min	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(4)	Hoist cable		Stops, then Reels in at 70 to 120 ft/min	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(6)	Hoist cable		Stops , then reels out	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4.I Operational Tests</b>					
(1)	Ambient air temperature	<u>70</u> °F or °C (circle)			
(3)	Motor current	<u>46</u> Amps	< 70 Amps	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(4).(c)	Braking over travel distance in 1/8th revolution increments or cable length				
	50 lb. load (Cycle 1)	<u>3/8</u>			
	200 lb. load (Cycle 2)	<u>3/8</u>			
	300 lb. load (Cycle 3)	<u>3/8</u>			
	400 lb. load (Cycle 6)	<u>3/8</u>			
	500 lb. load (Cycle 7)	<u>3/8</u>			
	600 lb. load (Cycle 8)	<u>1/4</u>			
(4).(f).1	44316-12-102 Hoists only – Demonstrate Overtemperature/Generator Out function				
	Cable Velocity	<u>N/A</u> ft/min	85 ft (25.9 m)/min MIN	<u>N/A</u>	<u>N/A</u>
	Current	<u>N/A</u> Amps	80 Amps MAX	<u>N/A</u>	<u>N/A</u>
(4).(f).2	All hoists except 44316-12-102 – Demonstrate Generator Out function				
	Cable Velocity (top layer)	<u>116</u> ft/min	100 ft (30.5m)/min MIN	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Current (top layer)	<u>80</u> Amps	85 Amps MAX	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(5)	Pilot control (reel in direction)		Overrides Pendant	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Pilot control (reel out direction)		Overrides Pendant	<input checked="" type="checkbox"/>	<input type="checkbox"/>





COMPONENT MAINTENANCE MANUAL  
PART NUMBER 44316-10 AND 44316-12

Figure 108. Test Datasheet (Sheet 5 of 8)

Goodrich P/N: 44316-\_\_\_\_ -\_\_\_\_ Rev.: \_\_\_\_ S/N: \_\_\_\_ Date: \_\_\_\_  
Work Order No.: \_\_\_\_\_

(Use this data sheet for the 44316-12-102 hoist)

C y c l e	Control Mode	Direction	Command Cable Speed	Cable Load (Lbs.)	Cable Speed <sup>1 &amp; 2</sup> (FPM)			Max. Current <sup>3</sup> (Amps)		Oil Sump (°F) (220°F Max)	Motor Heat Sink (°F) (150°F Max)
					Top Layer	Top Layer Req'd	2 <sup>nd</sup> Layer	Actual	Req's		
1	Pendant	Down	Variable	50		250 min			---		
		Up				250 min			---		
2	Pendant	Down	Variable	200		250 min			---		
		Up				250 min			---		
3	Pendant	Down	Variable	300		250 min			---		
		Up				250 min			---		
4	Operator	Down	Fixed	300		180 - 220			---		
		Up				180 - 220			---		
5	Pilot	Down	Fixed	300		85 - 115			---		
		Up				85 - 115			---		
6	Pendant	Down	Variable	400		250 min			---		
		Up				200 min			---		
7	Pendant	Down	Variable	500		250 min			---		
		Up				200 min			---		
8	Pendant	Down	Variable	600		250 min			---		
		Up				200 min			150 max		
			GENOUT <sup>4</sup>			85 min			80 max		
9	Operator	Down	Fixed	600		180 - 220			---		
		Up				180 - 220			---		
10	Pilot	Down	Fixed	600		85 - 115			---		
		Up				85 - 115			---		

- Notes: <sup>1</sup> Cable speed measured on top layer.  
<sup>2</sup> Cable speed measured on second layer – for reference only.  
<sup>3</sup> Maximum current measured on top layer.  
<sup>4</sup> Test required for 44316-12-102 Hoist only.

Accept \_\_\_\_\_ Reject \_\_\_\_\_

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COMPONENT MAINTENANCE MANUAL  
PART NUMBER 44316-10 AND 44316-12



Figure 108. Test Datasheet (Sheet 6 of 8)

Goodrich P/N: 44316-12-104

Rev.: Y

S/N: 40543 Date: 10-15-20

Work Order No.: 43776247

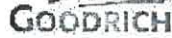
(Use this data sheet for the 44316-10-101, -104 and 44316-12-101, -104, -105 hoists)

C y c l e	Control Mode	Direction	Command Cable Speed	Cable Load (Lbs.)	Cable Speed <sup>1 2</sup> (FPM)			Max. Current <sup>3</sup> (Amps)		Oil Sump (°F) (220°F Max)	Motor Heat Sink (°F) (150°F Max)
					Top Layer <sup>1</sup>	Top Layer Req'd	2 <sup>nd</sup> Layer <sup>2</sup>	Actual	Req'd		
1	Pendant	Down	Variable	50	292	250 min	238	76	---	73	69
		Up			302	250 min	243	46	---	86	73
2	Pendant	Down	Variable	200	302	250 min	242	55	---	99	76
		Up			293	250 min	237	76	---	110	79
3	Pendant	Down	Variable	300	301	250 min	242	59	---	131	81
		Up			285	250 min	232	99	---	139	83
4	Operator	Down	Fixed	300	195	180 - 220	155	36	---	154	87
		Up			195	180 - 220	155	71	---	160	90
5	Pilot	Down	Fixed	300	97	85 - 115	78	17	---	169	95
		Up			97	85 - 115	78	39	---	123	102
6	Pendant	Down	Variable	400	302	250 min	242	62	---	151	101
		Up			276	200 min	228	123	---	147	102
7	Pendant	Down	Variable	500	300	250 min	242	66	---	169	102
		Up			251	200 min	223	138	---	161	103
8	Pendant	Down	Variable	600	297	250 min	241	71	---	178	104
		Up			216	200 min	210	144	150 max	171	106
			GENOJT	116	100 min	115	80	85 max	160	108	
9	Operator	Down	Fixed	600	195	180 - 220	155	44	---	171	110
		Up			194	180 - 220	156	137	---	165	114
10	Pilot	Down	Fixed	600	97	85 - 115	78	24	---	148	119
		Up			97	85 - 115	78	77	---	142	128

- Notes: <sup>1</sup> Cable speed measured on top layer.  
<sup>2</sup> Cable speed measured on second layer – for reference only.  
<sup>3</sup> Maximum current measured on top layer.

Accept  Reject





COMPONENT MAINTENANCE MANUAL  
PART NUMBER 44316-10 AND 44316-12



Figure 108. Test Datasheet (Sheet 7 of 8)

Goodrich P/N: 44316-12-104 Rev.: Y S/N: 40543 Date: 10-15-20  
Work Order No.: 43776247

PARA TEST	MEASUREMENT	LIMIT	ACCEPT	REJECT	
<b>4.J.(2) Overload Clutch Test</b>					
(h)	Gearbox oil temperature	<u>89</u> °F or °C	85-90°F (29-32°C)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Cable Drum		Does not rotate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(j)	Gearbox oil temperature	<u>89</u> °F or °C	85-90°F (29-32°C)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Clutch slip average load	<u>1346</u> lbs	1275 to 1530 lbs. (578 to 694 kg)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4.K Hoist Dead-Weight Load Test</b>					
(6)	Operate Hoist at 24 to 24.5 Volts:				
	2 ft lift #1		Able to lift weight	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2 ft lift #2		Able to lift weight	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(7)	Lower dead-weight using Pendant		Does not stall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4.L Final Retracted Limit Switch Adjustments and Operational Checks</b>					
<b>4.L.(1) Adjust "UP/DOWN-SLOW" Limit Switches S5 and S6</b>					
(c)	Pendant CABLE LENGTH display		> 280 ft. (85 m)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(d)	Reel in with zero load		No cable defects	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Reel in cable		9½-10½ ft. extended	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(e)	Rotate Basic Cam of S5 and S6		S5 & S6 actuate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(g)	S5 and S6		Actuate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(h)	Length between cable guide and cable end		9-½ to 10-½ feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(i)	Cable Speed		Decelerates	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Pendant SLOW light		Illuminates	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4.L.(2) Adjust "2-FT UP-DECEL" Limit Switches S7 and S8</b>					
(c)	S7 and S8		Actuate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(e)	S7 and S8 actuate		Actuate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(f)	Length between cable guide and cable end		21 to 26 inches	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(g)	Cable Speed		Decelerates	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Pendant SLOW light		Remains illuminated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>4.L.(4) Inertial Limit/Homing Load &amp; "UP LIMIT" Limit Switches S9 and S10 Adjustment</b>					
(b)	Uncompressed thickness (A)	<u>3.202</u> in.			
(c)	UP LIMIT switches		Actuate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Hoist operation		Stops	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Activate S9 and S10 separately		Hoist stops each time	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(f)	Compressed thickness (B)	<u>3.131</u> in.			
(g)	Energy Absorber compression 1 (A-B=C)	<u>.071</u> in.	(0.065-0.125 in.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Load = (C x 1600)	<u>113.6</u> lbs.			
(h)	Hook Energy Absorber		Maintains homing load 150±50 lbs.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(i)	Uncompressed thickness (A)	<u>3.202</u> in.			
	Compressed thickness (B)	<u>3.130</u> in.			
	Energy Absorber compression 2 (A-B=C)	<u>.072</u> in.	(0.065-0.125 in.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Load = (C x 1600)	<u>115.2</u> lbs.			
	Hook Energy Absorber		Maintains homing load 150±50 lbs.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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COMPONENT MAINTENANCE MANUAL  
PART NUMBER 44316-10 AND 44316-12

Figure 108. Test Datasheet (Sheet 8 of 8)



Goodrich P/N: 44316-12-104 Rev.: Y S/N: 40543 Date: 10-15-20  
Work Order No.: 43776247

PARA TEST	MEASUREMENT	LIMIT	ACCEPT	REJECT
(i) Uncompressed thickness (A)	<u>3.202</u> in.			
Compressed thickness (B)	<u>3.133</u> in.			
Energy Absorber compression 3 (A-B=C)	<u>.069</u> in.	(0.065-0.125 in.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Load = (C x 1600)	<u>110.4</u> lbs.			
Hook Energy Absorber		Maintains homing load 150±50 lbs.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.L.(5) Torque Check All Cam Screws				
(a) Recheck all Cams torque		17-20 in.-lbs.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.L.(6) Final Potentiometer Adjustment				
(c) Pendant CABLE LENGTH display		0 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.M Post Check Procedures				
(3) Hour Meter (Final Reading)	<u>003.1</u> hrs	Operates mid to ¾ level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(4) Drain and fill with new Mobil Jet II oil conditioned			<input checked="" type="checkbox"/>	<input type="checkbox"/>
(9) Weight of Hoist Assy & gear case oil		For 44316-10-: 104.0 lb (47kg) max	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<u>104.55</u> Lbs. or <u>N/A</u> Kg	For 44316-12-: 106.0 lb (48kg) max	<input checked="" type="checkbox"/>	<input type="checkbox"/>

FINAL RESULT:

Remarks: N/A

Tested By:  \_\_\_\_\_



# TEARDOWN REPORT

SIS-CA MRO  
 SIS-CA HOIST & WINCH MRO  
 2727 EAST IMPERIAL HWY  
 BREA CA 92821-6713  
 USA

COPY



Repair Station #AO4R057M

<b>Customer</b> LEONARDO MALAYSIA SDN BHD	<b>Cust PO</b> 4802194949		
<b>Input Part</b> 44316-12-104	<b>Input Serial</b> 40543	<b>Qty</b> 1.000	
<b>Output Part</b> 44316-12-104	<b>Output Serial</b> 40543	<b>Workscope</b> REPAIR	
<b>Cust Part</b> 3G2591V01532	<b>Cust Serial</b> 40543	<b>Status/Work</b> REPAIRED	
<b>Description</b> RESCUE HOIST ASSY DC PWD	<b>Removal Code</b> CRFR PN 44316-12-104 SN	<b>Failure Date</b>	
<b>Aircraft</b>	<b>Engine Type</b>		
<b>Incoming NSN</b> N/A	<b>Outgoing NSN</b> N/A	<b>Tail No</b>	
<b>Date Rec'd</b> 04/03/2020	<b>Quote Date</b> 06/22/2020	<b>Accept Date</b> 09/03/2020	
<b>Ship Date</b>	<b>DOM</b>		
<b>Sales Order</b> 7867649	<b>Work Order</b> 43776247	<b>Notification</b> 303828758	

**Technical Documents :**

CS: Overhaul Manual 25-01-13 Revision: 1 Rev. Date: 08/14/2015  
 Service Bulletin Recurring 44301-10-18 Revision: 6 Rev. Date: 10/10/2016  
 Service Bulletin Recurring 44301-10-22 Revision: 4 Rev. Date: 03/28/2016  
 Service Letter Recurring SIL-2018-03 Revision: 1 Rev. Date: 04/03/2018  
 Service Letter Recurring SIL-2019-02 Revision: 1 Rev. Date: 03/21/2019  
 Service Letter Recurring SIL-2019-05 Revision: 1 Rev. Date: 10/21/2019

CMM: 25-60-06-3 ATA #: 25-60-06-3 Revision: 2 Rev. Date: 05/24/2016  
 25-60-06-3TR2 ATA #: 25-60-06-3TR2 Revision: 1 Rev. Date: 07/18/2016

**Customer Reason for Return**

**Reason for return:**

PN 44316-12-104 SN 40543 MFG JAN 2017 NO REPAIR HISTORY REASON FOR RETURN:  
 CLUTCH OVERHAUL REQUIRED. HOIST PASSED DUE DATE OF 36 MOS.

**Evaluation Inspection**

**Initial Observations**

Received By: Robert Silva  
 Received on: 03/25/2020  
 Inducted on: 04/03/2020  
 Last shipped: TBD  
 MFG Date: 01/2017  
 Warranty Consideration: NO  
 Log cards received: NO LOG CARDS RECEIVED  
 ID Plate: 44316-12-104 SN 40543  
 Viboscribe: 44316-12-104 SN 40543  
 CPN: 3G2591V01532  
 Color: WHITE  
 Hook Received: 42315-488 SN 3433 W/CABLE HOOK ASSY ATTACHED

Repair Station #AO4R057M

<b>Work Order</b>	43776247	<b>Description</b>	RESCUE HOIST ASSY DC PWD	<b>Date Rec'd</b>	04/03/2020
<b>Input Part</b>	44316-12-104	<b>Input Serial</b>	40543		
<b>Cust Part</b>	3G2591V01532	<b>Cust Serial</b>	40543		

Damage to crate: NO  
 Crate Number: CUSTOMER CRATE NOT STANDARD GOODRICH SHIPPING CRATE  
 Loose Hardware: NO  
 Cable Received: YES  
 Meter Reading: 001.4 HOURS  
 Fairings Received:  
 1. 42325-128  
 2. 44316-126-101  
 3. 42325-125-101  
 4. 44311-122-101  
 5. 44311-128  
 Customer owned material received:  
 1. CUSTOMER OWNED FAIRING W/CAMERA P/N 3G5347A21931  
 2. 2 LARGE BOLT/PIN MS203921R57  
 3. LARGE CUSTOMER BRACKET 3G2591A05351  
 LRUs received:  
 1. 44316-602-101 SN 00401  
 2. 44316-507 SN 00204  
 3. CUSTOMER HARNESS BELOW  
     44316-784 SN A0199  
     44316-780-102 SN A0203  
     44316-771-102 SN A0215  
     44316-792-102 SN A0203  
 FAR Required:  
 Cartridge received: NO  
 Customer reference numbers: 4802194949  
 Per-CSR the Reason For Return:  
 CLUTCH OVERHAUL REQUIRED. HOIST PASSED DUE DATE OF 36 MOS.  
 Members present during the induction: Robert Silva  
 CSR: TIFFANY  
 Per-CSR End User: Royal Malaysia Police  
 Notes:  
 1. POSSIBLE CABLE KNIFING

**Evaluation Inspection**

**TEST EVALUATION**

Unit P/N 44316-12-104    S/N 40543    W/O 43776247

REASON for Return: CLUTCH OVERHAUL REQUIRED. HOIST PASSED DUE DATE OF 36 MONTHS. (Confirmed).

Meter is working 001.4-001.8  
 Retainer S/N MSL13-94; matched.  
 Cable knifing due to timing was off; fixed.  
 Oil leak from breather housing; Jim O. witnessed it.  
 Unit ran well in cycles with-in speed range.  
 Cable is in good condition; OK to reuse.  
 Set and drums finger screw replacement is recommended.  
 Clutch pulled at 1574 with 88 degree temperature.





<b>Work Order</b>	43776247	<b>Description</b>	RESCUE HOIST ASSY DC PWD	<b>Date Rec'd</b>	04/03/2020
<b>Input Part</b>	44316-12-104	<b>Input Serial</b>	40543		
<b>Cust Part</b>	3G2591V01532	<b>Cust Serial</b>	40543		

Oil drained and cable spooled.

**Evaluation Inspection**

**Disassembly Evaluation**

\*\*\*\*\* 00840279 JASON BIBER 04/13/2020 \*\*\*\*\*  
 \*\*\*\*\* P/N 44316-12-104 S/N 40543 W/O# 43776247 \*\*\*\*\*

Unit was disassembled and inspected in accordance with the Disassembly and Check sections of CMM 25-60-06-3 and/or per OEM specifications.

The customer's reason for return was: Confirmed.

The following service bulletins will be applied:

- ASB44301-10-18
- SIL-2019-05
- SB44316-600-3-03
- SB44316-850-01
- SIL-2018-03
- SIL-2019-02
- SB44316-602-101-02

The following sub-assemblies were disassembled to complete the repair:

- Cable hook assembly
  - Motor assembly
  - Automatic brake assembly
  - Overload clutch assembly

Technician Notes:

1. Brake running torque high at 40 in lbs
2. Removed pop 2 clutch
3. Ink stamp customer P/N needed on 42315-488 hook
4. Removed 44316-602-101 motor assy
5. All (4) cotter pins on roller cage assy are oriented in the correct direction

All accessible critical parts were inspected in accordance with the critical parts inspection criteria. Refer to the attached strip report for a list of replaced components.

**Evaluation Inspection**

**Motor Test Evaluation**

Unit was tested; IAW Testing and Fault Isolation section of CMM 25-61-13-3.

Other Notes:

GENOUT current is slightly low at 36 in-lbs.  
 Functional test is normal.

SIS-CA MRO  
 SIS-CA HOIST & WINCH MRO  
 2727 EAST IMPERIAL HWY  
 BREA CA 92821-6713  
 USA

## TEARDOWN REPORT



Repair Station #AO4R057M

<b>Work Order</b>	43776247	<b>Description</b>	RESCUE HOIST ASSY DC PWD	<b>Date Rec'd</b>	04/03/2020
<b>Input Part</b>	44316-12-104	<b>Input Serial</b>	40543		
<b>Cust Part</b>	3G2591V01532	<b>Cust Serial</b>	40543		

**Evaluation Inspection**

**Motor Disassembly Evaluation**

Unit was disassembled and inspected in accordance with OEM specifications and FAA approved data.

**Technician Notes:**

= Disassembled the motor for verification of all service bulletins and CCA boards. Service bulletins 44316-600-3-03, and 44316-602-101-02 are applicable.

= Reassembled the motor and RE-ATP.

All accessible critical parts were inspected in accordance with the critical parts inspection criteria. Refer to the attached strip report for a list of replaced components.

**Evaluation Inspection**

**Minor w/Clutch**

**Tear Down Attachment**

**Quote Attachment**

**Service Notification Attachment**

**Service Bulletins - Outgoing**  
 ZMT 44301-10-18

**Service Bulletins - Outgoing**  
 ZMT 44316-600-3-03

**Service Bulletins - Outgoing**  
 ZMT 44316-850-01

**Service Bulletins - Outgoing**  
 ZMT SIL-2018-03

**Service Bulletins - Outgoing**  
 ZMT SIL-2019-02



NOTICE: THIS FORM, DULY UPDATED, MUST FOLLOW THE ASSY

ATA Chapter \_\_\_\_\_

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### COMPONENTS INSTALLED ON ASSY

ASSY P/N (26)

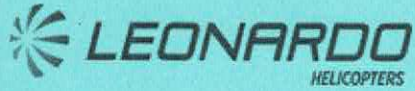
3G2591V01532

ASSY S/N (27)

40543

COMPONENT DATA			INSTALLATION				REMOVAL					
DESCRIPTION (28)	P/N (29)	MANUFACTURING DATE (31)	ASSY TOTAL HOURS (33)	COMPONENT TOTAL HOURS (34)		DATE (36)	ASSY TOTAL HOURS (38)	COMPONENT TOTAL HOURS (39)		TOTAL HOURS WITH PENALTY FACTOR (40)	TIME SINCE OH (41)	DATE (42)
	S/N (30)	RETIREMENT LIFE / TIME LIMITS (32)	TOTAL LANDINGS (33)	TOTAL LANDINGS (34)	LANDINGS SINCE OH (35)	STAMP AND SIGNATURE (37)	TOTAL LANDINGS (38)	TOTAL LANDINGS (39)	LANDINGS SINCE OH (41)		STAMP AND SIGNATURE (43)	
			TOTAL LIFTS/CYCLES (33)	TOTAL LIFTS/CYCLES (34)	LIFTS/CYCLES SINCE OH (35)		TOTAL LIFTS/CYCLES (38)	TOTAL LIFTS/CYCLES (39)		TOTAL LIFTS/CYCLES SINCE OH (41)		
Cartridge	42315-281	12/2017	00.00	00.00	NEW	09/2019						
	9833	5 Y M/D										
External Hoist Cable Assy	42325-298	01/2017	00.00	00.00	NEW	09/2019						
	==	1500 lifts 4 Y I/D										





# LOG CARD

NOTICE: THIS FORM, DULY UPDATED, MUST FOLLOW THE ASSY

## Section 3

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### ASSEMBLY ACTIVITY HISTORY

ASSY P/N (44)

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ASSY S/N (45)

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DATE (46)	TOTAL HOURS (47)	TASKS (48)	ACTIVITIES (49)	ORGANIZATION (50)	STAMP AND SIGNATURE (51)
	TOTAL LANDINGS (47)				
	TOTAL LIFTS/CYCLES (47)				
29/11/2020	A/F 10.55, Hoist 3.1	REPAIRED ON WO 43776247 IAW CMM 25-60-06-3. COMPLIED WITH THE FOLLOWING SERVICE BULLETINS: EASA AD 2015-0226R5, SB 44316-850-01, ASB 44301-10-18, SB 44316-600-3-03, SB 44316-602-101-02, SIL-2018-03, SIL-2019-02, SIL-2019-05. INSTALLED POP. 2 CLUTCH PN 44314-398-101, SN: L90-218, CLUTCH SLIP: 1346, TSN: 0000 HOURS. INSTALLED RESCUE HOIST CABLE PN 42325-298, SN: S91-17, TSN: 0000 HOURS. HOIST TSN: 003.1 HOURS. UNIT PASSED THE ACCEPTANCE TESTING REQUIREMENTS AS DEFINED BY CMM 25-60-06-3. REFER TO THE ATTACHED STRIP REPORT FOR THE SHOP FINDINGS REPORT. CPN: 3G2591V01532 (LEONARDO MALAYSIA SDN BHD) EXPORT AIRWORTHINESS APPROVAL-THIS ARTICLE MEETS THE SPECIAL REQUIREMENTS OF MALAYSIA PMA		LM	





# LOG CARD

## Section 4

NOTICE: THIS FORM, DULY UPDATED, MUST FOLLOW THE ASSY

ATA Chapter

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### AIRWORTHINESS DIRECTIVES AND BULLETINS COMPLIANCE

ASSY P/N (52)


**3G2591V01532**

ASSY S/N (53)

**40543**

#### AIRWORTHINESS DIRECTIVE AND MANDATORY BULLETINS

#### OPTIONAL BULLETINS

AIRWORTHINESS DIRECTIVE/MANDATORY BULLETIN NUMBER (54)		ASSY TOTAL HOURS (57)	ORGANIZATION (58)	STAMP AND SIGNATURE (59)	OPTIONAL BULLETIN NUMBER (54)		ASSY TOTAL HOURS (57)	ORGANIZATION (58)	STAMP AND SIGNATURE (59)
ISSUE / REVISION (55)	DATE OF COMPLIANCE (56)	ASSY TOTAL LANDINGS (57)			ISSUE / REVISION (55)	DATE OF COMPLIANCE (56)	ASSY TOTAL LANDINGS (57)		
EASA AD 2015-0226 R5 ISSUED 23/07/2020	28/10/2020	3.1	LM	<i>sdh</i> 					
		NOT AVAILABLE							