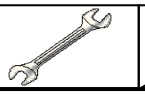
No. 3586-I-00

Information Notice

SUBJECT: GENERAL - LUBRICATION OIL & PARTICLE ANALYSIS

Information about Approved Companies and Laboratories

For the attention of



AIRCRAFT CONCERNED	Version(s)	
	Civil	Military
EC120	B	
AS350	B, BA, BB, B1, B2, B3, D	L1
AS550		A2, C2, C3, U2
AS355	E, F, F1, F2, N, NP	
AS555		AF, AN, SN, UF, UN, AP
EC130	B4, T2	
SA365 / AS365	C1, C2, C3, N, N1, N2, N3	F, Fs, Fi, K, K2
AS565		MA, MB, SA, SB, UB, MBe
SA366		GA
EC155	B, B1	
SA330	J	Ba, L, Sm
SA341	G	B, C, D, E, F, H
SA342	J	L, L1, M, M1, Ma
ALOUETTE II	313B, 3130, 318B, 318C, 3180	
ALOUETTE III	316B, 316C, 3160, 319B	
LAMA	315B	
EC225	LP	
EC725		AP
AS332	C, C1, L, L1, L2	B, B1, F1, M, M1
AS532		A2, U2, AC, AL, SC, UE, UL
EC175	B	
H160	B	
EC339		KUH/Surion
BO105	C (C23, CB, CB-4, CB-5), D (DB, DBS, DB-4, DBS-4, DBS-5), S (CS, CBS, CBS-4, CBS-5), LS A-3	E-4
MBB-BK117	A-1, A-3, A-4, B-1, B-2, C-1, C-2, C-2e, D-2, D-2m, D-3, D-3m	D-2m, D-3m
EC135	T1, T2, T2+, T3, P1, P2, P2+, P3, EC635 T1, EC635 T2+, EC635 T3, EC635 P2+, EC635 P3, T3H, P3H, EC635 T3H, EC635 P3H	

Reason for Revision 4: With this Revision, Airbus Helicopters provides detailed information on the services offered by the approved Companies and Laboratories. Moreover, this Revision addresses some aspects of the particle analysis. Due to the complete revision of this Information Notice, revision bars are omitted.

Oil is a key element in the operation of dynamic components. It serves several functions such as:
- As a major function, it lubricates dynamic parts.
- Also as a major function, it serves as coolant.
- As a secondary function, it is a carrier of particles. Thus, it enables dynamic components to be monitored.

With this in mind, Airbus Helicopters is continually reinforcing, monitoring and reporting of both oil and particle analyses. In line with the growing need for operational support on the customer side, the number of qualified companies and laboratories is growing as well.
With the network of Qualified laboratories expanding, the need to standardize the reports provided is increasing. This standardization will ensure that the reports provided meet the requirements of maintenance directives. As a consequence, it will increase the efficiency of decision-making in regard to the serviceability of dynamic components.
As those requirements can differ from one helicopter type to another, two different standards are going to be set up. This standardization will be deployed step by step to the entire network of Qualified laboratories. On customer side there will be no need to specify which standard must be provided.

Oil analysis:

Regarding oil analysis activities, qualified laboratories are the ones certified in accordance with international standards (for example ISO 17025) or local regulations.
Airbus Helicopters has defined an extended set of tests called “Enhanced Oil Analysis”. Technical Publications already request this Enhanced Oil Analysis for some helicopters types. It includes:
- Water content, to track humidity contamination in the oil, which can generate oxidation
- Viscosity stability, to ensure the presence of an oil film on mechanical components (measurements must be performed at both 40 °C and at 100 °C)
- Inductively Coupled Plasma (I.C.P.) or spectral analysis, to monitor the stability of additives and identify elements that are contained in the oil (e.g. iron, magnesium, aluminum, sulfur, phosphorous)
- Total Acid Number (TAN) used for the surveillance of synthetic oil chemical stability. Increased oil acidity can also lead to the damage of non-metallic parts
- Particle Quantifier (PQ) index for oil magnetism measurement.

Particle analysis:

The maintenance directives defined in the MTC regarding particle analysis are highly specific. They include the bare characterization of morphology, the parameters analyzed and the vocabulary used. It is therefore clear that only Airbus Helicopters qualified laboratories will be capable of complying.

In order to avoid any delay, the particle collection procedure defined in MTC 20-08-01-601 must be complied with. In this context, Airbus Helicopters wishes to point out that - after the end of the degreasing process - the particles must be collected on a transparent adhesive tape and a transparent support sheet, Kit Aero KA0225-3 (or equivalent).

In order to support the Oil and Particle analysis activities used for the serviceability assessment of dynamic components, Airbus Helicopters is extending its qualified network.

It is up to the customer to choose the laboratory that suits them best from those listed.

No. 3586-I-00

As part of a continuous improvement process, Airbus Helicopters has already set up a dedicated statement of work with some of these laboratories.

Nevertheless, Airbus Helicopters would finally like to request that analysis results are transmitted using the established channels.

The locations and capabilities of the laboratories which are part of the qualified network are now integrated into a mobile application called Heli Presence.

It is a free application available on both AppStore and GooglePlay

You can also access this app directly through the Airbus Helicopters website:
https://www.airbus.com/en/products-services/helicopters/hcare-services/global-network

Appendix to IN No. 3586-I-00

Revision 4

The listed laboratories are only qualified for the analyses checked off in columns A to G.
Prior to contact, please make sure that the selected laboratory is qualified for the requested needs.

Name	Mail	Country	WEB	Phone	Email	A Particle Analysis	B Multi-element Analysis (ICP-AES) (1) (2)	C Kinematic Viscosity (2)	D Water Content (1) (2)	E Total Acid Number (2)	F Wear Particles Index (2)	G ROTRODE (RDE)
SGS VERNOLAB	ZI Rue Lavoisier BP 813 27130 Verneuil sur Avre	FRANCE	https://www.sgs.com/	T: +33 (0)232 60 65 00	arnaud.paimblanc@sgs.com		✓	✓	✓	✓	✓	
JET-CARE	3 Saddle Road Cedar Knolls – USA NJ 07927	USA	https://www.spectro-oil.com/	T: +1 973 292 9597	inquiries@jet-care.com	✓	✓	✓	✓	✓	✓	
SPECTRO - JET-CARE	Hatchwood Place, Farnham Road, Odiham, Hampshire, RG29 1AB, UK	UK	https://www.spectro-oil.com/	Spectro T: +44 (0) 1256 704000 (24 hours) Jet-Care GPA T: +44 (0) 1256 701777 (24 hours)	Spectro Email: enquiries@spectro-oil.com Jet-Care GPA Email: inquiries@jet-care.com	✓	✓	✓	✓	✓	✓	
SPECTRO oil AG	Landstrasse 23 CH 4303 Kaiseraugst Switzerland	SWITZERLAND	https://www.spectro-oil.com/	T: +41 (0) 61 815 90 20	enquiries@spectro-oil.com	✓	✓	✓	✓	✓	✓	
SGS Testing & Control Services Pte Ltd	30 Boon Lay Way, #03-01, Singapore 609957	SINGAPORE	https://www.sgs.com/	T: +65 9824 6034 T: +65 6379 0266	Nicole.Khoo@sgs.com sgs.oilscanops@sgs.com		✓	✓	✓	✓	✓	
The James Hutton limited	Craigiebuckler Aberdeen - Scotland AB15 8QH	SCOTLAND	https://www.hutton.ac.uk/	Laura-Jane Strachan a. Direct Line: +44 (0) 1224 395102 b. Mobile: +44 (0) 7968 620024	Laura-Jane.Strachan@hutton.ac.uk	✓						
INTERTEK SINGAPORE Caleb Brett - Regional OCM Technical Centre	Intertek, Regional OCM Technical Centre 1 Clementi Loop, #02-03 Singapore 129808	SINGAPORE	https://www.intertek.com/ocm/singapore/	T: +65 6469 9109	cheewee.lim@intertek.com	✓	✓	✓	✓	✓	✓	
INTERTEK AUSTRALIA Melbourne West Footscray	Building 1, 19-23 Paramount Road Melbourne West FootscrayVic, 3012	AUSTRALIA	https://www.intertek.com/analytical-laboratories/probe	T: +61 3 9316 4600	mark.rose@intertek.com	✓						
INTERTEK SHARJAH ITS Testing Services (UK) Ltd.	Shj Br Plot No. 26/M, Industrial Area No. 13Sharjah, United Arab Emirates Box 4660	UEA	https://www.intertek.com/contact/ema/uae	T: +971 6 508 6111	vivek.vv@intertek.com web.cm@intertek.com : object UAE Petroleum Services (12839)	✓	✓	✓	✓	✓	✓	
ACUREN CANADA	12271 Horseshoe Way, Richmond, BC, V7A 4V4	CANADA	https://www.acuren.com/	T: 604.275.3800	jason.light@acuren.com	✓						
Japan Airlines Co Ltd	M1 building 3-5-1, Haneda Airport Ota-ku Tokyo 144-0041 Japan	JAPAN	http://www.jalec.co.jp/	T: +81-3-5756-2242 F: +81-3-5756-2209 T: +81-70-4242-8098 T: +81-70-4242-8097	org.tyojcz.jali@jal.com Tanamacji.ys9x@jal.com Matsui.kb5r@jal.com	✓						
RUNCARE	6/F West Wing, Bldg. T15-3, 999 Ningqiao Rd., Shanghai 201206 （**上海浦**东新区宁桥路999号 T15-3栋西六层）	CHINA	www.runcare.com	T: +86 (0) 21 38820226 T: +86 (0) 21 68531367	yue@runcare.com		✓	✓	✓	✓	✓	
- For non-commercial operators only- Wehrwissenschaftliches Institut für Werk- und Betriebsstoffe (WIWeB)	Institutsweg 1 85435 Erding	GERMANY	https://www.bundeswehr.de/wiweb	T: +49 (0) 8122 9590-3410	wiwebgf410@bundeswehr.org		✓		✓			✓
Polskie Linie Lotnicze "LOT" S.A	43, Komitetu Obrony Robotników st., 02-146 Warsaw	POLAND	www.laboratorium.lot.pl	T: +48 22 606 9625	m.szklarska@lot.pl		✓		✓			
Laborator GreenOilCheck	Str. Alexandru Deparatanu nr 17,107071 Ploiesti	ROMANIA	www.laborator-terraverde.ro	T: +40 (0) 244 435 415	laborator@terraverde.com.ro				✓			✓
Burreau Veritas (old)Technological Center TEKNIKER	Box 44 Calle Iñaki Goenaga 5, 20600, Eibar - Spain	SPAIN	www.tekniker.es	T: +34 943 256 935	maria-elena.garcia@bureauveritas.com		✓		✓			
RUAG Schweiz AG	RUAG Aviation Ennetbürgerstrasse CH-6371 Stans	SWITZERLAND	www.ruag.com	T: +41 58 467 09 65	martin.gabriel@ruag.ch		✓		✓			
FocusLAB Ltd	120/41-42 Moo 12, Soi King Kaew 21/2 King Kaew Road, T.Rajateva, A.Bangplee, Samutprakan 10540, Thailand	THAILAND	www.focuslab.co.th	T: + 66 (0) 2 36 186 003	focuslab@focuslab.co.th		✓		✓			✓
ITS TESTING SERVICES (UK)	Building A7, Room 1055 Cody Technology Park Farnborough - Hampshire GU14 0LX	UK	www.intertek.com	T: +44 1252 397165 T: +44 7367 686482	robert.chapman@intertek.com flc.enquiries@intertek.com		✓		✓			
LABORATOIRE ECCI	185 rue de Bielle SERRES CASTET 64121	FRANCE	https://www.ecci.fr	T: +33 (0)5 59 33 38 80	karine.malderez@ecci.fr	✓						

Table 1

(1) Multi-element Analysis (ICP-AES) + Water Content = **Spectrometric Oil Analysis (SOAP)**

(2) Multi-element Analysis (ICP-AES) + Kinematic Viscosity + Water Content + Total Acid Number + Wear Particles Index = **Enhanced Oil Analysis**