

OIL ANALYSIS REPORT

Area (C-GHOA) [C-GHOA] AIRBUS AS350B3E M6859 Component

Gearbox

NYCOLUBE 3525 (6 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

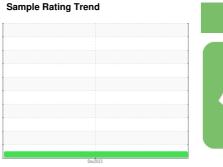
All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.

Contaminants

The water content is negligible. There is no indication of any contamination in the oil.

Oil Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





NORMAL

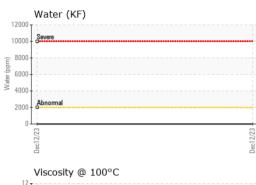
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0863956		
Sample Date		Client Info		12 Dec 2023		
TSN	hrs	Client Info		12		
TSO	hrs	Client Info		0		
Oil Age	hrs	Client Info		12		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>30	<1		
Chromium	ppm	ASTM D5185(m)	>4	0		
Nickel	ppm	ASTM D5185(m)	>5	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>5	<1		
Aluminum	ppm	ASTM D5185(m)	>8	0		
Lead	ppm	ASTM D5185(m)	>10	<1		
Copper	ppm	ASTM D5185(m)	>8	<1		
Tin	ppm	ASTM D5185(m)	>4	0		
Antimony	ppm	ASTM D5185(m)	>5	0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		3		
Calcium	ppm	ASTM D5185(m)		1		
Phosphorus	ppm	ASTM D5185(m)		13		
Zinc	ppm	ASTM D5185(m)		2		
Sulfur	ppm	ASTM D5185(m)		10198		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>10	2		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Water	%	ASTM D6304*	>0.2	0.00		
ppm Water	ppm	ASTM D6304*	>2000	0		
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	0.11		



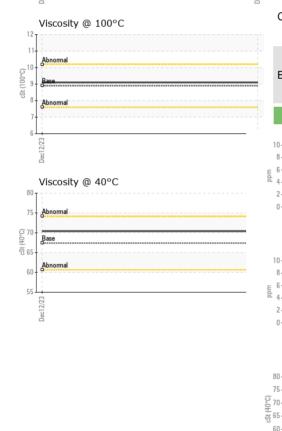
OIL ANALYSIS REPORT

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.







	VISUAL		method				history2
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
	Precipitate	scalar	Visual*	NONE	NONE		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
Deci 2/23	Appearance	scalar	Visual*	NORML	NORML		
Deci	Odor	scalar	Visual*	NORML	NORML		
°C	Emulsified Water	scalar	Visual*	>0.2	NEG		
C	Free Water	scalar	Visual*		NEG		
	FLUID PROPERT	IES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D7279(m)	67.4	70.4		
	Visc @ 100°C	cSt	ASTM D7279(m)		9.1		
	Viscosity Index (VI)	Scale	ASTM D2270*	105	103		
	- SAMPLE IMAGES			limit/base			history?
Deci 2/23 +	SAMPLE IMAGES	5	method	iiiiii/base	current	history1	history2
°C	Color					no image	no image
	Bottom					no image	no image
2	GRAPHS Ferrous Alloys			Deci 2/23			
	Non-ferrous Metal	S		Dec1 2/23			
	Viscosity @ 40°C				Acid Number		
	G 70 G 65 G 70 G 70			1.0.1 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Base		
	Dec12/23			Dec12/23	Dec12/23		Dec12/2
Laboratory Sample No. Lab Number Unique Number Test Package	: 02604121 I r : 5697206 I e : AVI 3	75 Apple Recieved Diagnose Diagnost	l :191 ed :211	ington, ON I Dec 2023 Dec 2023 rin Marson		OE REGIONAL AIRF ORO	IELICOPTERS PORT, 224 LINE 7 N. STATION, ON CA LOL 2E0 ct: Ken Sanford

Contact/Location: Ken Sanford - ONE2ORO

T: (705)487-1771

F: (705)487-5817

FERROGRAPHY REPORT

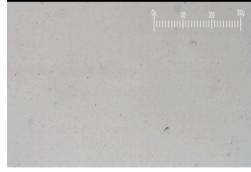
Area (C-GHOA) Machine Id [C-GHOA] AIRBUS AS350B3E M6859

Gearbox Fluid NYCOLUBE 3525 (6 LTR)

Magn: 200x Illum: BC



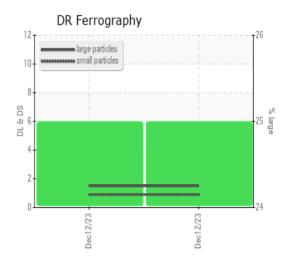
Magn: 100x Illum: RW



DR-FERROGRAP	PHY	method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		1.5		
Small Particles		DR-Ferr*		0.9		
Total Particles		DR-Ferr*	>	2.4		
Large Particles Percentage	%	DR-Ferr*		25		
Severity Index		DR-Ferr*		1		
FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		2		
Ferrous Sliding	Scale 0-10	ASTM D7684*		_		
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		1		
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*				
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*				
Ferrous Other	Scale 0-10	ASTM D7684*				
Nonferrous Rubbing	Scale 0-10	ASTM D7684*				
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*				
Nonferrous Other	Scale 0-10	ASTM D7684*				
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Lubricant Degradation	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*		1		
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		2		

WEAF

All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.



This page left intentionally blank