WEAR CONTAMINANTS OIL CONDITION **ABNORMAL NORMAL NORMAL**

(C-GFHO)

[C-GFHO] AIRBUS H125 MA131260

Component Gearbox

NYCOLUBE 64 (0 LTR)

RECOMMENDATION

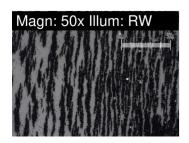
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

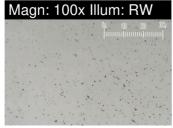
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0863961		
Sample Date		Client Info		14 Feb 2024		
TSN	hrs	Client Info		30		
TSO	hrs	Client Info		0		
Oil Age	hrs	Client Info		30		
Filter Age	hrs	Client Info		30		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
		10TH DE (05/)		_		
Iron	ppm	ASTM D5185(m)	>30	5		
Chromium	nnm	ACTM D5195(m)	- 1	Λ		

WEAR

Wear particle analysis indicates that the ferrous rolling and ferrous rubbing particles are abnormal.

Magn: 200x Illum:	BC	
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基础 達多		
建设产品基		新工作数据
	等于数	





TSO	hrs	Client Info		0	
Oil Age	hrs	Client Info		30	
Filter Age	hrs	Client Info		30	
Oil Changed		Client Info		Not Changd	
Filter Changed		Client Info		Not Changd	
Sample Status				ABNORMAL	
		10TH DE (05)			
Iron	ppm	ASTM D5185(m)	>30	5	
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	0	
Aluminum	ppm	ASTM D5185(m)	>8	<1	
Lead	ppm	ASTM D5185(m)	>10	0	
Copper	ppm	ASTM D5185(m)	>8	<1	
Tin	ppm	ASTM D5185(m)	>4	0	
Vanadium	ppm	ASTM D5185(m)		0	
White Metal	scalar	Visual*	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	
Large Particles		DR-Ferr*		82.2	
Small Particles		DR-Ferr*		31.6	
Total Particles		DR-Ferr*	>	113.8	
Large Particles Percentage	%	DR-Ferr*		44.5	
Severity Index		DR-Ferr*		4159	
Ferrous Rubbing	Scale 0-10	ASTM D7684*		7	
Ferrous Sliding	Scale 0-10	ASTM D7684*			
Ferrous Cutting	Scale 0-10	ASTM D7684*			
Ferrous Rolling	Scale 0-10	ASTM D7684*		4 3	
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*		1	
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*			

CONTAMINANTS

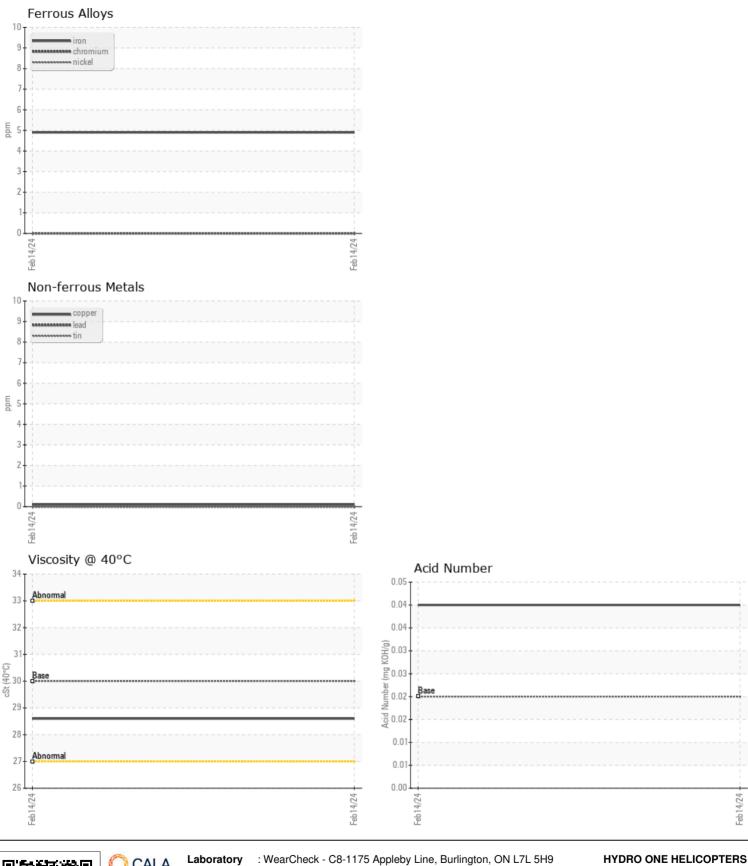
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>10	<1	
Potassium	ppm	ASTM D5185(m)	>20	<1	
Water	%	ASTM D6304*	>0.2	0.002	
ppm Water	ppm	ASTM D6304*	>2000	21	
Silt	scalar	Visual*	NONE	NONE	
Debris	scalar	Visual*	NONE	NONE	
Sand/Dirt	scalar	Visual*	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.2	NEG	
Carbonaceous Material	Scale 0-10	ASTM D7684*			
Sand/Dirt	Scale 0-10	ASTM D7684*			
Fibres	Scale 0-10	ASTM D7684*			
Spheres	Scale 0-10	ASTM D7684*			
Other	Scale 0-10	ASTM D7684*		2	

OIL CONDITION

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)		0		
Boron	ppm	ASTM D5185(m)	0	0		
Barium	ppm	ASTM D5185(m)	0	0		
Molybdenum	ppm	ASTM D5185(m)	0	0		
Manganese	ppm	ASTM D5185(m)	0	0		
Magnesium	ppm	ASTM D5185(m)	0	<1		
Calcium	ppm	ASTM D5185(m)	0	<1		
Phosphorus	ppm	ASTM D5185(m)	0	<1		
Zinc	ppm	ASTM D5185(m)	0	4		
Sulfur	ppm	ASTM D5185(m)	15000	15403		
Acid Number (AN)	mg KOH/g	ASTM D974*	0.02	0.04		
Visc @ 40°C	cSt	ASTM D7279(m)	30.0	28.6		
Visc @ 100°C	cSt	ASTM D7279(m)	5.3	4.9		
Viscosity Index (VI)	Scale	ASTM D2270*	112	90		
Lubricant Degradation	Scale 0-10	ASTM D7684*		1	J	





CALA ISO 17025:2017 Accredited Laboratory

Sample No.

Test Package : AVI 3

: WC0863961 Lab Number : 02616212 Unique Number : 5733322

Received **Tested**

Diagnosed

: 16 Feb 2024 : 26 Feb 2024

: 26 Feb 2024 - Kevin Marson

LAKE SIMCOE REGIONAL AIRPORT, 224 LINE 7 N. ORO STATION, ON

CA L0L 2E0 Contact: Ken Sanford ken.sanford@hydroone.com T: (705)487-1771

To discuss this sample report, contact Customer Service at 1-800-268-2131. 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.

F: (705)487-5817

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