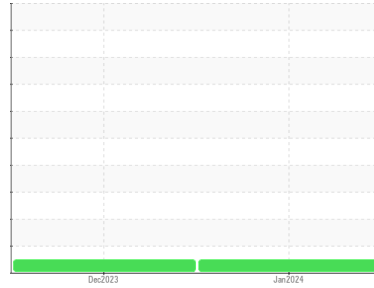




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area

(C-GHOA)

Machine Id

[C-GHOA] AIRBUS AS350B3E M6859

Component

Gearbox

Fluid

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0863959	WC0863956	---
Sample Date	Client Info		12 Jan 2024	12 Dec 2023	---
TSN	hrs	Client Info	30	12	---
TSO	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	30	12	---
Oil Changed		Client Info	Not Chngd	Not Chngd	---
Sample Status			NORMAL	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >30	<1	<1	---
Chromium	ppm	ASTM D5185(m) >4	0	0	---
Nickel	ppm	ASTM D5185(m) >5	0	0	---
Titanium	ppm	ASTM D5185(m)	0	0	---
Silver	ppm	ASTM D5185(m) >5	0	<1	---
Aluminum	ppm	ASTM D5185(m) >8	<1	0	---
Lead	ppm	ASTM D5185(m) >10	0	<1	---
Copper	ppm	ASTM D5185(m) >8	<1	<1	---
Tin	ppm	ASTM D5185(m) >4	0	0	---
Antimony	ppm	ASTM D5185(m) >5	0	0	---
Vanadium	ppm	ASTM D5185(m)	0	0	---
Beryllium	ppm	ASTM D5185(m)	0	0	---
Cadmium	ppm	ASTM D5185(m)	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<1	---
Barium	ppm	ASTM D5185(m)	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	0	0	---
Manganese	ppm	ASTM D5185(m)	0	0	---
Magnesium	ppm	ASTM D5185(m)	3	3	---
Calcium	ppm	ASTM D5185(m)	1	1	---
Phosphorus	ppm	ASTM D5185(m)	14	13	---
Zinc	ppm	ASTM D5185(m)	2	2	---
Sulfur	ppm	ASTM D5185(m)	10269	10198	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

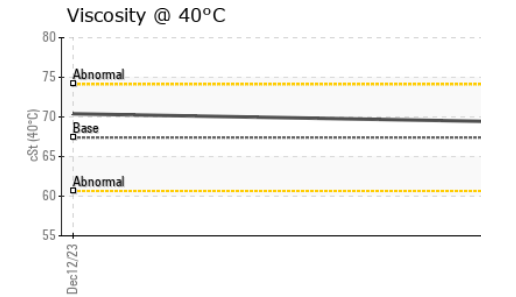
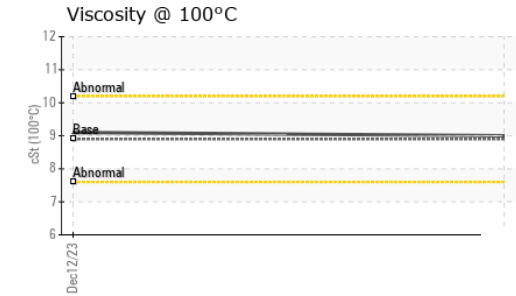
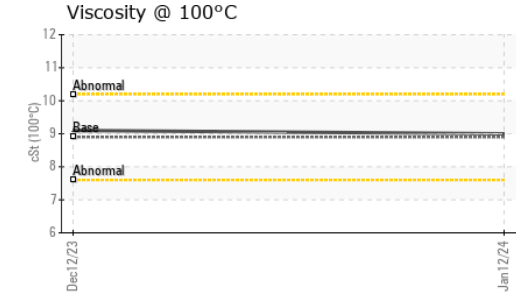
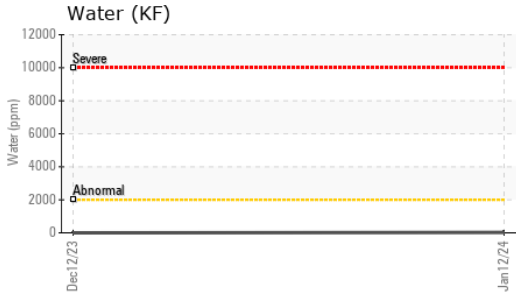
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >10	2	2	---
Sodium	ppm	ASTM D5185(m)	0	<1	---
Potassium	ppm	ASTM D5185(m) >20	0	<1	---
Water	%	ASTM D6304* >0.2	0.002	0.00	---
ppm Water	ppm	ASTM D6304* >2000	25	0	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.02	0.11	0.11	---



OIL ANALYSIS REPORT


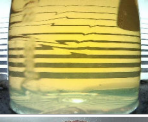


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---
Free Water	scalar	Visual*		NEG	---



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	67.4	69.4	70.4
Visc @ 100°C	cSt	ASTM D7279(m)	8.9	9	9.1
Viscosity Index (VI)	Scale	ASTM D2270*	105	103	103

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color				
Bottom				

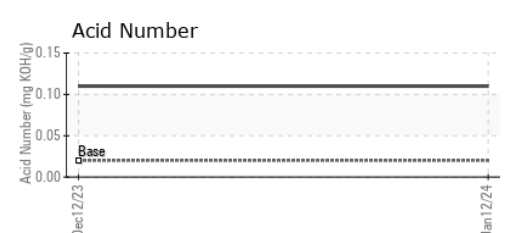
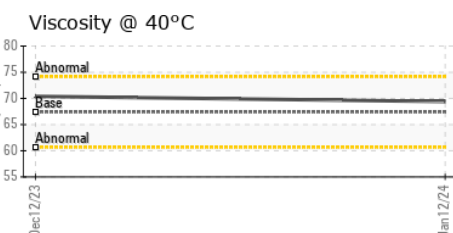
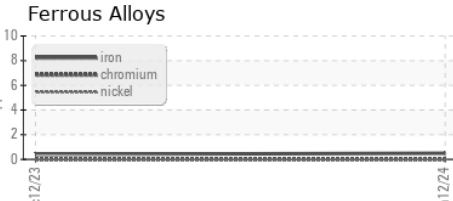



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no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0863959
Lab Number : 02609313
Unique Number : 5710399
Test Package : AVI 3

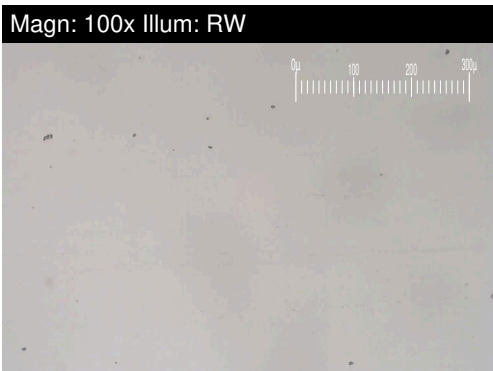
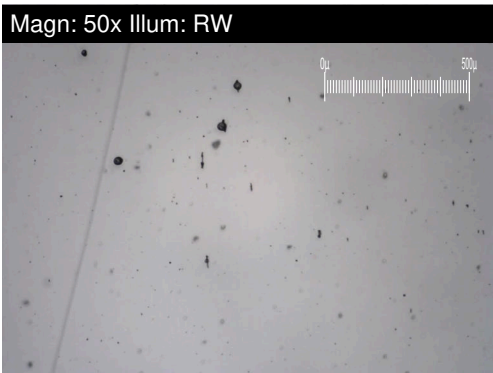
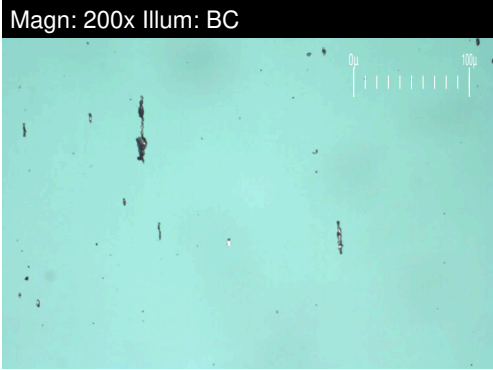
HYDRO ONE HELICOPTERS
 LAKE SIMCOE REGIONAL AIRPORT, 224 LINE 7 N.
 ORO STATION, ON
 CA L0L 2E0
 Contact: Ken Sanford
 ken.sanford@hydroone.com
 T: (705)487-1771
 F: (705)487-5817

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.



FERROGRAPHY REPORT

Area
(C-GHOA)
 Machine Id
[C-GHOA] AIRBUS AS350B3E M6859
 Component
Gearbox
 Fluid
NYCOLUBE 3525 (6 LTR)

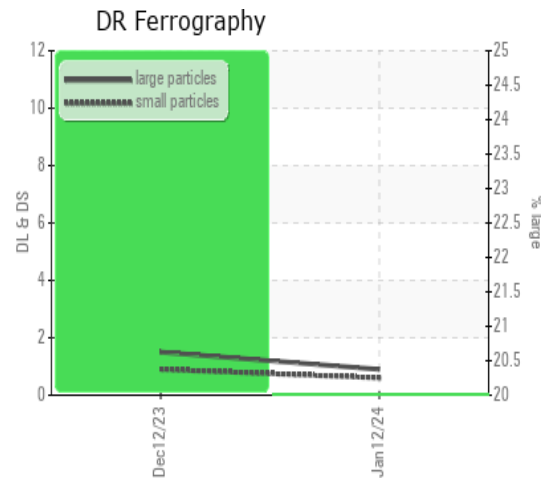


DR-FERROGRAPHY		method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		0.9	1.5	---
Small Particles		DR-Ferr*		0.6	0.9	---
Total Particles		DR-Ferr*	>---	1.5	2.4	---
Large Particles Percentage	%	DR-Ferr*		20	25	---
Severity Index		DR-Ferr*		0	1	---

FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		2	2	
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		1	1	
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*		1		
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	1	
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		1	2	

WEAR

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



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