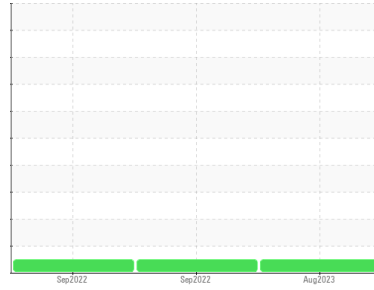




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
(C-GHOZ)
 Machine Id
[C-GHOZ] AIRBUS M6638
 Component
Gearbox
 Fluid
NYCOLUBE 3525 (7 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: 600 HR Scheduled sample before oil and filter change.)

Wear

All component wear rates are normal. The direct-reading & analytical ferrographic 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		WC0722617	WC0722626	WC0722624
Sample Date	Client Info		14 Aug 2023	28 Sep 2022	12 Sep 2022
TSN	hrs Client Info		604	31	9
TSO	hrs Client Info		604	0	0
Oil Age	hrs Client Info		600	31	9
Oil Changed	Client Info		N/A	Changed	Not Changed
Sample Status			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m)	>30	2	1	<1
Chromium	ppm ASTM D5185(m)	>4	0	0	0
Nickel	ppm ASTM D5185(m)	>5	0	0	<1
Titanium	ppm ASTM D5185(m)		0	0	0
Silver	ppm ASTM D5185(m)	>5	0	0	0
Aluminum	ppm ASTM D5185(m)	>8	<1	0	0
Lead	ppm ASTM D5185(m)	>10	0	0	<1
Copper	ppm ASTM D5185(m)	>8	<1	0	0
Tin	ppm ASTM D5185(m)	>4	0	0	0
Antimony	ppm ASTM D5185(m)	>5	0	0	<1
Vanadium	ppm ASTM D5185(m)		0	0	0
Beryllium	ppm ASTM D5185(m)		0	0	0
Cadmium	ppm ASTM D5185(m)		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)		<1	<1	<1
Barium	ppm ASTM D5185(m)		0	0	0
Molybdenum	ppm ASTM D5185(m)		0	0	0
Manganese	ppm ASTM D5185(m)		0	0	0
Magnesium	ppm ASTM D5185(m)		0	<1	<1
Calcium	ppm ASTM D5185(m)		<1	0	0
Phosphorus	ppm ASTM D5185(m)		3	9	3
Zinc	ppm ASTM D5185(m)		2	<1	<1
Sulfur	ppm ASTM D5185(m)		10077	10569	10483
Lithium	ppm ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

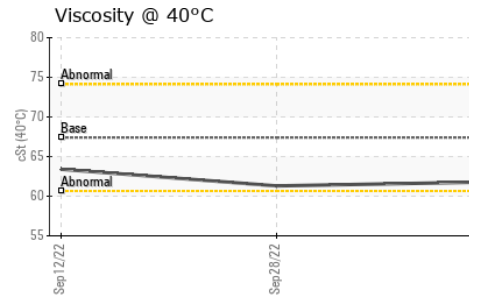
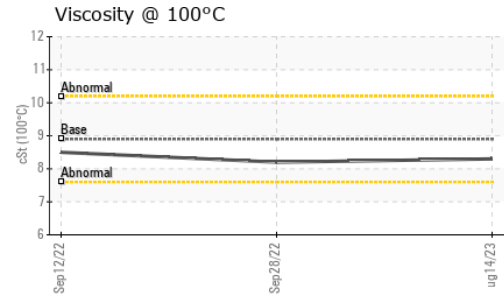
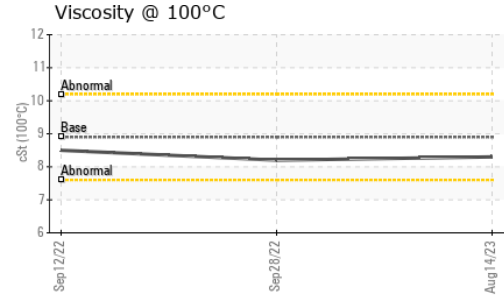
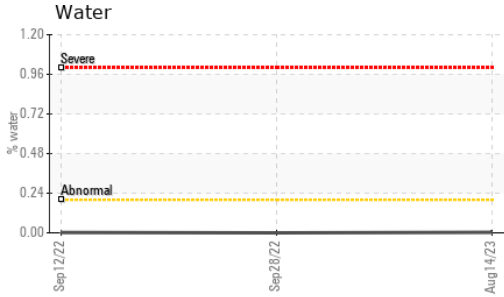
	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m)	>10	2	<1	<1
Sodium	ppm ASTM D5185(m)		0	0	<1
Potassium	ppm ASTM D5185(m)	>20	0	0	1
Water	% ASTM D6304*	>0.2	0.003	0.00	0.002
ppm Water	ppm ASTM D6304*	>2000	26.8	0.00	21.5

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*	0.02	0.10	0.10	0.11



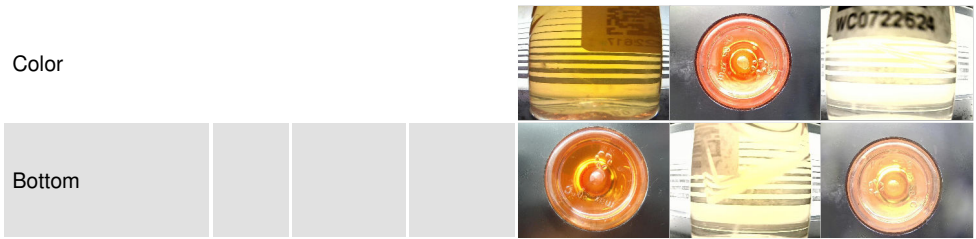
OIL ANALYSIS REPORT



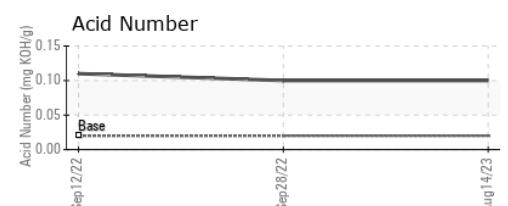
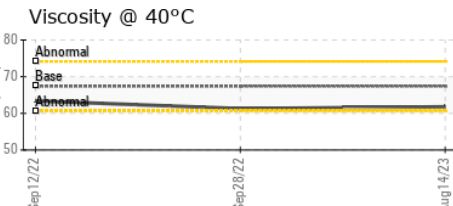
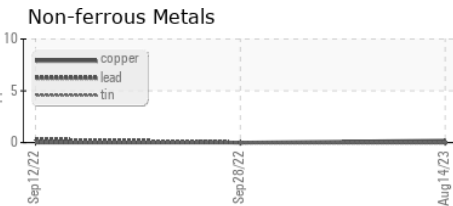
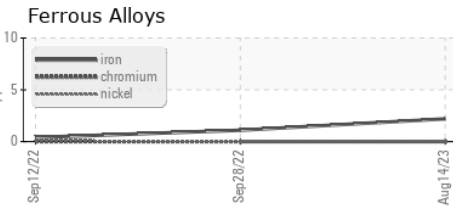
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D2729(m)	67.4	61.8	61.3	63.4
Visc @ 100°C	cSt	ASTM D2729(m)	8.9	8.3	8.2	8.5
Viscosity Index (VI)	Scale	ASTM D2270*	105	103	101	104

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0722617
Lab Number : 02576539
Unique Number : 5629599
Test Package : AVI 3
Received : 17 Aug 2023
Diagnosed : 18 Aug 2023
Diagnostician : Kevin Marson

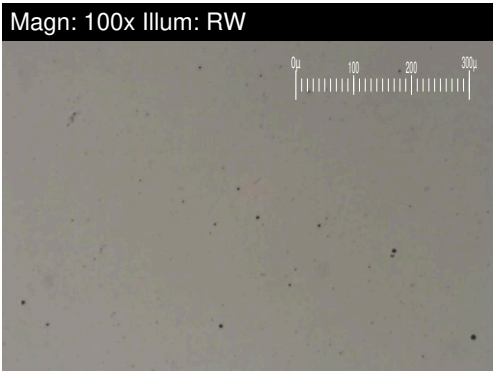
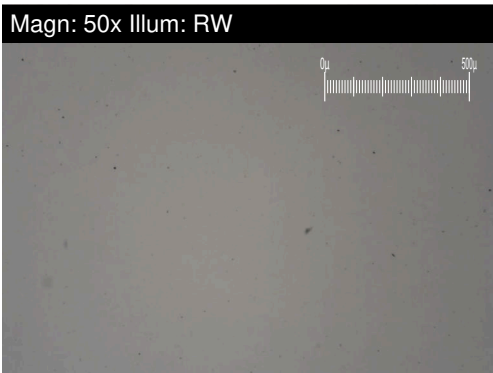
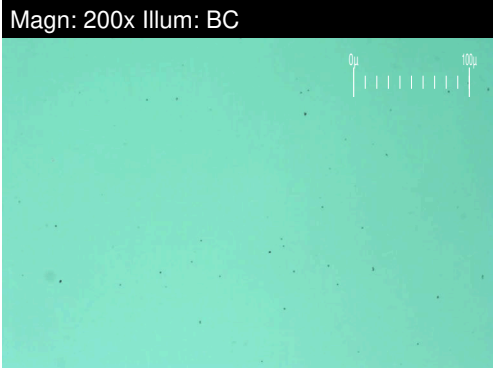
HYDRO ONE HELICOPTERS
 LAKE SIMCOE REGIONAL AIRPORT, 224 LINE 7 N.
 ORO STATION, ON
 CA L0L 2E0
 Contact: Ken Sanford
 ken.sanford@hydroone.com
 T: (705)487-1771
 F: (705)487-5817

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-GHOZ)
 Machine Id
[C-GHOZ] AIRBUS M6638
 Component
Gearbox
 Fluid
NYCOLUBE 3525 (7 LTR)

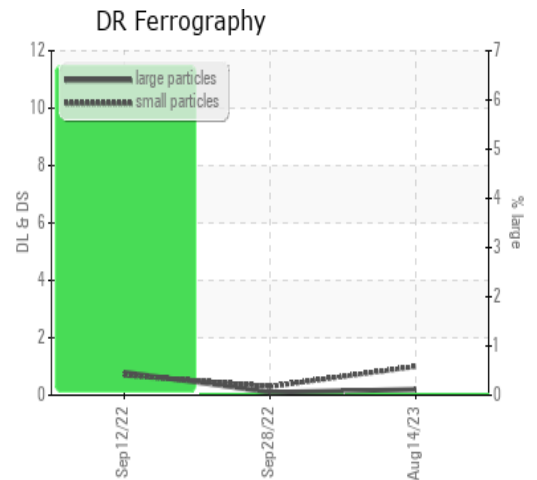


DR-FERROGRAPHY		method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		0.2	0.1	0.8
Small Particles		DR-Ferr*		1.0	0.3	0.7
Total Particles		DR-Ferr*	>---	1.2	0.4	1.5
Large Particles Percentage	%	DR-Ferr*		0	0	6.7
Severity Index		DR-Ferr*		0	0	0

FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		1	1	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*				
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	1
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		1	1	1

WEAR

All component wear rates are normal. The direct-reading & analytical ferrographic results are normal indicating no abnormal wear in the system.



This page left intentionally blank