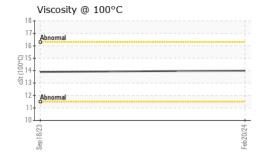
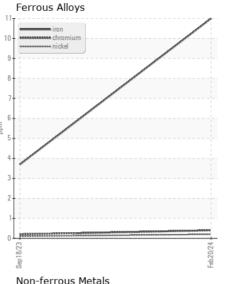
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

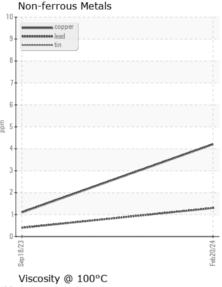
STBD SSG

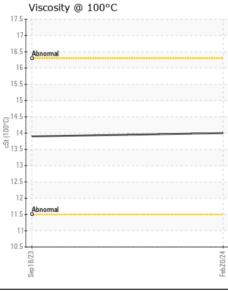
Component

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number		Client Info		WC0754197	WC0754209	
	Sample Date		Client Info		20 Feb 2024	18 Sep 2023	
	Machine Age	hrs	Client Info		4729	0	
	Oil Age	hrs	Client Info		441	0	
	Filter Age	hrs	Client Info		441	0	
	Oil Changed		Client Info		Not Changd	N/A	
	Filter Changed		Client Info		Not Changd	N/A	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185(m)	>50	11	4	
	Chromium	ppm	ASTM D5185(m)	>4	<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)	>2	<1	<1	
	Titanium	ppm	ASTM D5185(m)		0	0	
	Silver	ppm	ASTM D5185(m)	>5	0	0	
	Aluminum	ppm	ASTM D5185(m)	>12	1	1	
	Lead	ppm	ASTM D5185(m)	>17	1	<1	
	Copper	ppm	ASTM D5185(m)	>70	4	1	
	Tin	ppm	ASTM D5185(m)	>15	0	0	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	VLITE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	4	4	
	Potassium	ppm	ASTM D5185(m)		6	7	
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method	>4.0	<1.0	<1.0	
	Water		WC Method	>0.1	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	ASTM D7844*		0	0	
	Nitration	Abs/cm	ASTM D7624*	>20	8.8	8.6	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	22.3	22.1	
	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		NORML	NORML	NORML	
	Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185(m)	>150	2	2	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		146	119	
	Barium	ppm	ASTM D5185(m)		0	0	
	Molybdenum	ppm	ASTM D5185(m)		0	<1	
	Manganese	ppm	ASTM D5185(m)		0	0	
	Magnesium	ppm	ASTM D5185(m)		14	13	
	Calcium	ppm	ASTM D5185(m)		2229	2202	
	Phosphorus	ppm	ASTM D5185(m)		968	1035	
	Zinc	ppm	ASTM D5185(m)		1145	1159	
	Sulfur	ppm	ASTM D5185(m)		3065	2923	
	Oxidation	Abs/.1mm	ASTM D7414*	>25	19.7	19.8	
	Visc @ 100°C	cSt	ASTM D7279(m)		14.0	13.9	











CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02618888 Unique Number : 5735998

: WC0754197 Test Package : MAR 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 29 Feb 2024 **Tested**

: 29 Feb 2024 Diagnosed : 29 Feb 2024 - Wes Davis

CANADIAN COAST GUARD CCGS CARIBOUS ISLE, 867 Lakeshore Rd Burlington, ON

CA L7S 1A1 Contact: Chief Engineer CariboulsleCE@ccgs-ngcc.gc.ca T:

F: (705)942-5739

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.