



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1013921232

Component
Port Main Engine

Fluid
SHELL ROTELLA T4 15W40 (49 LTR)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

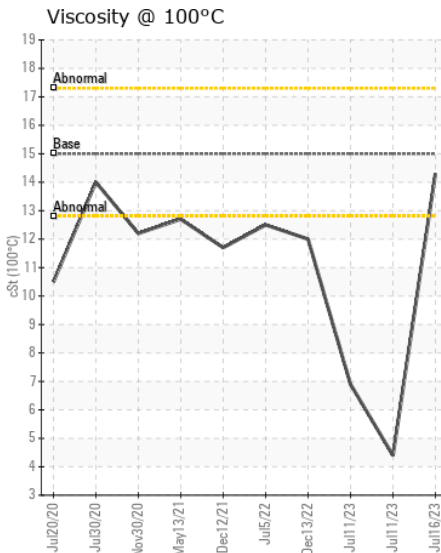
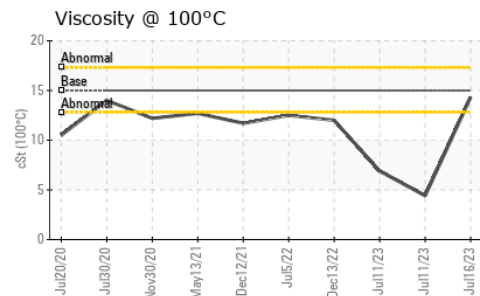
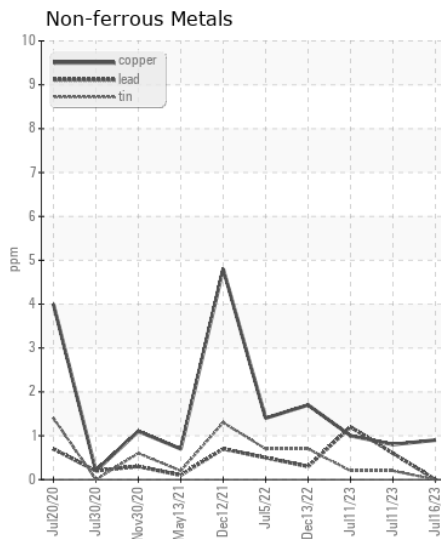
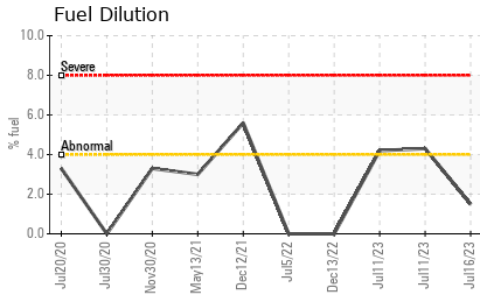
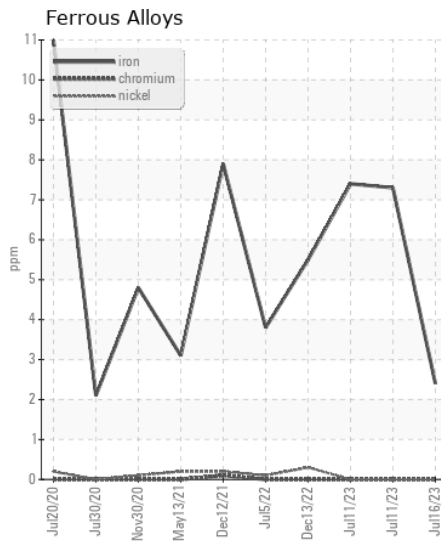
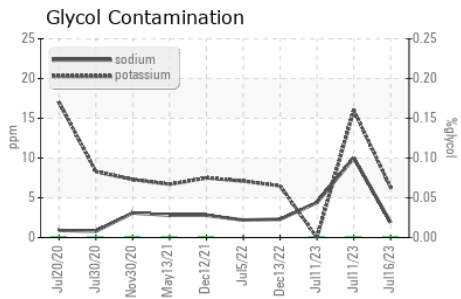
CONTAMINATION

Light fuel dilution occurring. No other contaminants were detected in the oil.

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0754203	WC0754202	WC0754201
Sample Date		Client Info		16 Jul 2023	11 Jul 2023	11 Jul 2023
Machine Age	hrs	Client Info		2116	2099	2099
Oil Age	hrs	Client Info		17	215	215
Filter Age	hrs	Client Info		17	215	215
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status				NORMAL	SEVERE	SEVERE
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Iron	ppm	ASTM D5185(m)	>120	2	7	7
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	1
Lead	ppm	ASTM D5185(m)	>40	0	1	<1
Copper	ppm	ASTM D5185(m)	>300	<1	1	<1
Tin	ppm	ASTM D5185(m)	>10	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
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Silicon	ppm	ASTM D5185(m)	>25	3	5	5
Potassium	ppm	ASTM D5185(m)	>20	6	0	16
Fuel	%	ASTM D7593*	>4.0	1.5	▲ 4.3	▲ 4.2
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*		0	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	5.1	▲ 25.8	▲ 25.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.4	0.0	0.0
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	▲ WGOIL
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	▲ .2%	▲ .2%
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Sodium	ppm	ASTM D5185(m)		2	4	10
Boron	ppm	ASTM D5185(m)		171	138	140
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		<1	<1	1
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		13	12	12
Calcium	ppm	ASTM D5185(m)		2109	1955	1926
Phosphorus	ppm	ASTM D5185(m)		1009	950	954
Zinc	ppm	ASTM D5185(m)		1092	1136	1119
Sulfur	ppm	ASTM D5185(m)		2991	2900	2902
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.9	23.7	23.6
Visc @ 100°C	cSt	ASTM D7279(m)	15	14.3	▲ 4.4	▲ 6.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0754203
Lab Number : 02571618
Unique Number : 5616669
Test Package : MAR 1 (Additional Tests: Glycol, PercentFuel)

CANADIAN COAST GUARD
 CCGS CARIBOUS ISLE, 867 Lakeshore Rd
 Burlington, ON
 CA L7S 1A1
 Contact: Chief Engineer
 CaribouIsleCE@ccgs-ngcc.gc.ca
 T: (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.