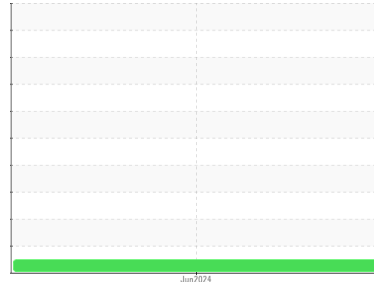




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

Propulsion

Machine Id

12A02#05 - Diesel Propulsion No 5 (S/N 40-ML-484)

Component

Diesel Engine

Fluid

RGO 20W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0936140	---	---
Sample Date	Client Info			14 Jun 2024	---	---
Machine Age	hrs	Client Info		19039	---	---
Oil Age	hrs	Client Info		0	---	---
Oil Changed	Client Info			N/A	---	---
Sample Status				NORMAL	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<1.0	---	---
Water	WC Method	>0.2		NEG	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	8	---	---
Chromium	ppm	ASTM D5185(m)	>20	<1	---	---
Nickel	ppm	ASTM D5185(m)	>4	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	1	---	---
Lead	ppm	ASTM D5185(m)	>40	<1	---	---
Copper	ppm	ASTM D5185(m)	>330	<1	---	---
Tin	ppm	ASTM D5185(m)	>15	0	---	---
Antimony	ppm	ASTM D5185(m)		0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Beryllium	ppm	ASTM D5185(m)		0	---	---
Cadmium	ppm	ASTM D5185(m)		0	---	---

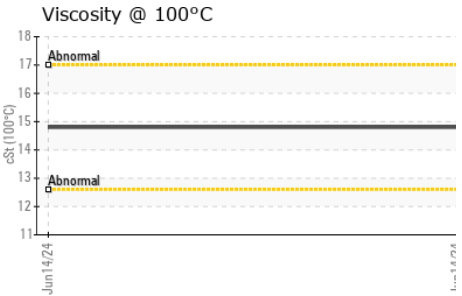
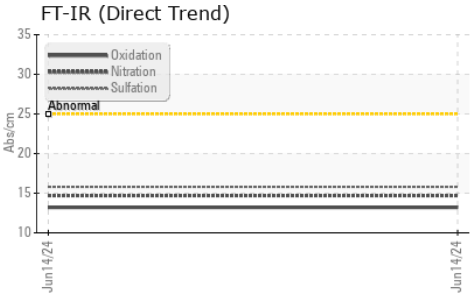
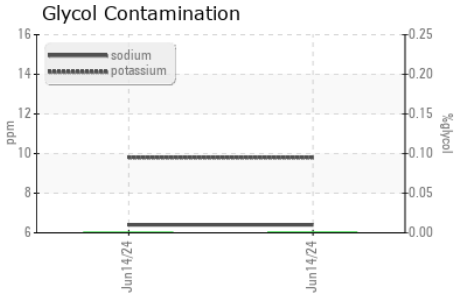
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		8	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		8	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)		21	---	---
Calcium	ppm	ASTM D5185(m)		4385	---	---
Phosphorus	ppm	ASTM D5185(m)		18	---	---
Zinc	ppm	ASTM D5185(m)		4	---	---
Sulfur	ppm	ASTM D5185(m)		2682	---	---
Lithium	ppm	ASTM D5185(m)		<1	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2	---	---
Sodium	ppm	ASTM D5185(m)		6	---	---
Potassium	ppm	ASTM D5185(m)	>20	10	---	---
Glycol	%	ASTM D7922*		0.0	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>2	0.1	---	---
Nitration	Abs/cm	ASTM D7624*	>20	14.7	---	---
Sulfation	Abs./1mm	ASTM D7415*	>30	15.8	---	---



OIL ANALYSIS REPORT

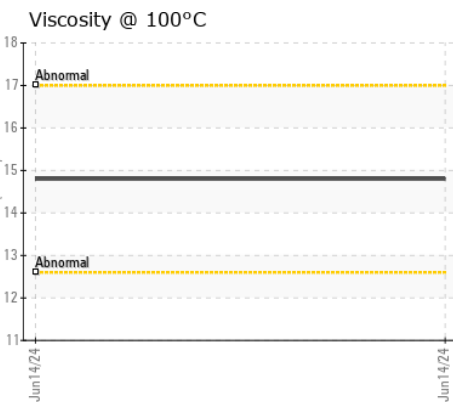
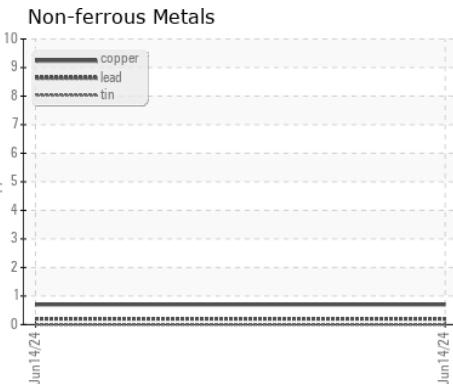
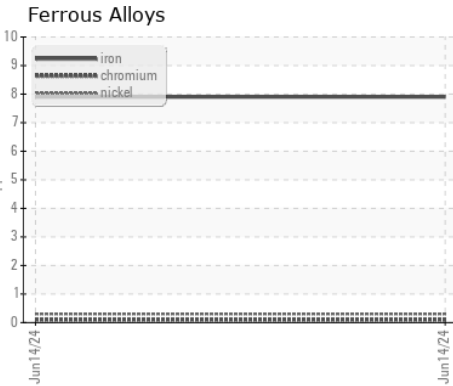


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	13.2	---	---

VISUAL	method	limit/base	current	history1	history2	
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 @ 100°C	cSt	ASTM D7279(m)		14.8	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0936140
Lab Number : 02642458
Unique Number : 5799997
Test Package : MAR 1 (Additional Tests: Glycol)

Canadian Coast Guard
 CCGS Pierre Radisson, 101 Boul. Champlain
 Quebec, QC
 CA G1K 7Y7

Received : 18 Jun 2024
 Tested : 18 Jun 2024
 Diagnosed : 19 Jun 2024 - Kevin Marson
 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.

Contact: Pierre Radisson
 PierreRadissonCE@ccgs-ngcc.gc.ca
 T: (418)563-1737
 F: