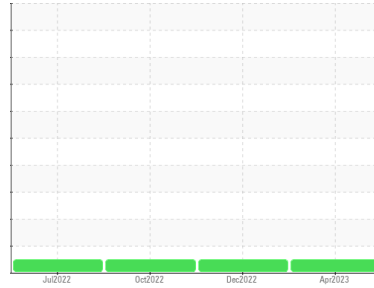




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Propulsion Shaft Sterntubes
 Machine Id
Propulsion Shaft Sterntube Starboard
 Component
Middle Right Sterntube
 Fluid
PETRO CANADA ENDURATEX EP 100 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.
 NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. (Customer Sample Comment: Top Up Amount: 50L)

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	WC0810867	WC0763483	WC0707613
Sample Date	Client Info	14 Apr 2023	12 Dec 2022	24 Oct 2022
Machine Age	hrs Client Info	0	0	0
Oil Age	hrs Client Info	0	0	0
Oil Changed	Client Info	N/A	Not Chngd	N/A
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>15	<1	<1	<1
Chromium ppm ASTM D5185(m)	>2	0	0	0
Nickel ppm ASTM D5185(m)	>2	0	0	0
Titanium ppm ASTM D5185(m)	>8	1	1	1
Silver ppm ASTM D5185(m)		0	0	0
Aluminum ppm ASTM D5185(m)	>4	0	<1	<1
Lead ppm ASTM D5185(m)	>15	2	1	<1
Copper ppm ASTM D5185(m)	>25	0	0	<1
Tin ppm ASTM D5185(m)	>10	0	0	0
Antimony ppm ASTM D5185(m)		<1	<1	0
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)	50	59	62	59
Barium ppm ASTM D5185(m)	0	0	0	0
Molybdenum ppm ASTM D5185(m)	0	0	0	0
Manganese ppm ASTM D5185(m)	0	0	0	0
Magnesium ppm ASTM D5185(m)	0	0	0	0
Calcium ppm ASTM D5185(m)	0	0	0	2
Phosphorus ppm ASTM D5185(m)	270	260	252	251
Zinc ppm ASTM D5185(m)	0	5	5	6
Sulfur ppm ASTM D5185(m)	4500	4062	3904	3888
Lithium ppm ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

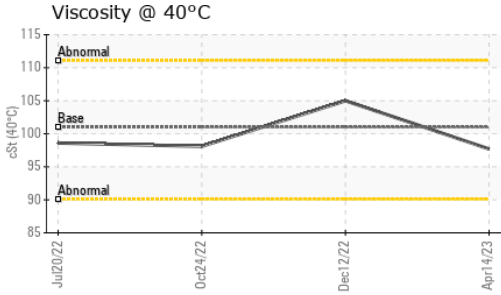
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>25	5	6	5
Sodium ppm ASTM D5185(m)		<1	0	<1
Potassium ppm ASTM D5185(m)	>20	<1	0	0

VISUAL

method	limit/base	current	history1	history2
White Metal scalar Visual*	NONE	NONE	NONE	NONE
Yellow Metal scalar Visual*	NONE	NONE	NONE	NONE
Precipitate scalar Visual*	NONE	NONE	NONE	NONE
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	NORML
Odor scalar Visual*	NORML	NORML	NORML	NORML
Emulsified Water scalar Visual*	>0.1	NEG	NEG	NEG
Free Water scalar Visual*		NEG	NEG	NEG

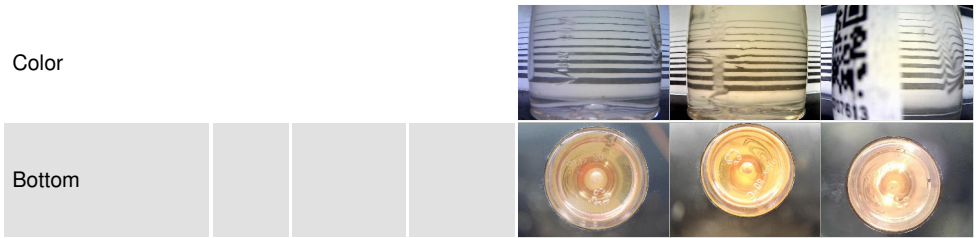


OIL ANALYSIS REPORT

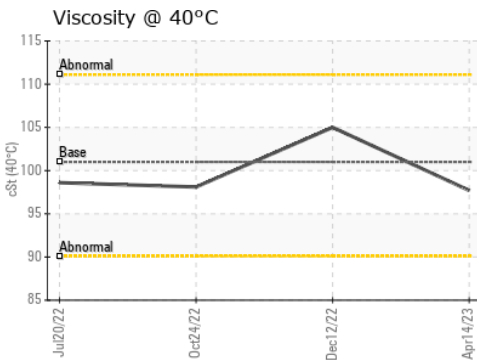
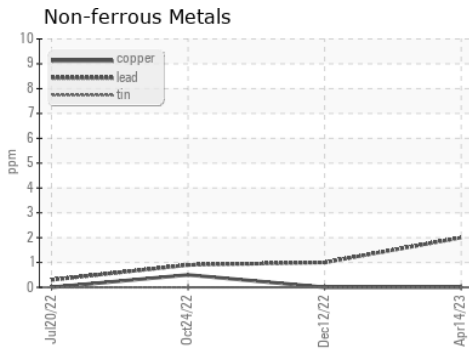
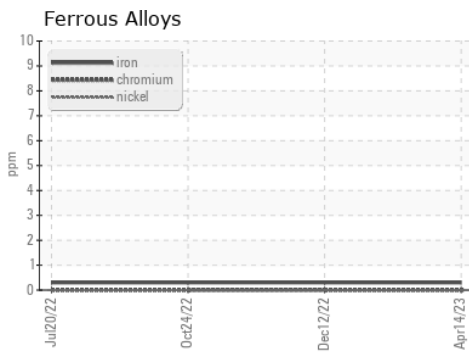


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	101	97.7	105	98.1

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0810867
Lab Number : 02552867
Unique Number : 5565882
Test Package : MAR 1

Canadian Coast Guard
 CCGS Vincent Massey, 101 Boul. Champlain
 Quebec, QC
 CA G1K 7Y7
 Contact: Vincent Massey
 vincentmasseyse@ccgs-ngcc.gc.ca

Received : 21 Apr 2023
 Diagnosed : 21 Apr 2023
 Diagnostician : 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.