

# **OIL ANALYSIS REPORT**

# **Thrusters** Stern Thruster

Component

**Rear Sternthruster** 

PETRO CANADA ENDURATEX EP 68 (--- GAL)

# Sample Rating Trend



### Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

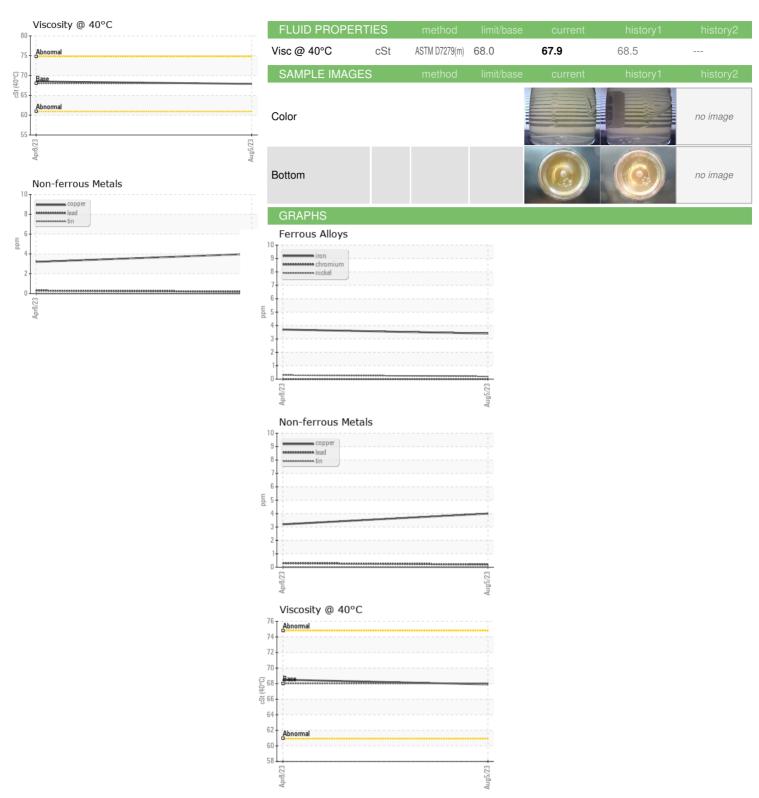
### **Fluid Condition**

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

iAL)			Apr2023	Aug2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0810854	WC0763474	
Sample Date		Client Info		05 Aug 2023	08 Apr 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Oil Added	N/A	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>25	3	4	
Chromium	ppm	ASTM D5185(m)	>3	0	0	
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		<1	0	
Aluminum	ppm	ASTM D5185(m)	>2	<1	<1	
Lead	ppm	ASTM D5185(m)	>3	<1	<1	
Copper	ppm	ASTM D5185(m)	>3	4	3	
Tin	ppm	ASTM D5185(m)	>3	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	69	70	67	
Barium	ppm	ASTM D5185(m)	1	0	0	
Molybdenum	ppm	ASTM D5185(m)	1	0	0	
Manganese	ppm	ASTM D5185(m)	1	0	0	
Magnesium	ppm	ASTM D5185(m)	1	<1	0	
Calcium	ppm	ASTM D5185(m)	1	4	2	
Phosphorus	ppm	ASTM D5185(m)	246	304	304	
Zinc	ppm	ASTM D5185(m)	1	11	10	
Sulfur	ppm	ASTM D5185(m)	3670	4419	4584	
Lithium	ppm	ASTM D5185(m)		1	2	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>10	4	4	
Sodium	ppm	ASTM D5185(m)		<1	<1	
Potassium	ppm	ASTM D5185(m)	>20	<1	0	
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*	>0.1	NEG	NEG	
Free Water	scalar	Visual*		NEG	NEG	
:13:15) Rev: 1					Submitted By:	Vincent Massey



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number : 5629054 Test Package : MAR 1

: WC0810854 : 02575994

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received Diagnosed

: 15 Aug 2023 : 16 Aug 2023 Diagnostician : Kevin Marson

**Canadian Coast Guard** CCGS Vincent Massey, 101 Boul. Champlain

Quebec, QC **CA G1K 7Y7** Contact: Vincent Massey

vincentmasseyse@ccgs-ngcc.gc.ca T: (418)573-7423

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.