



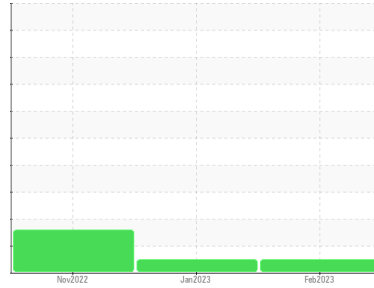
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**Auxiliary Generators**  
 Machine Id  
**Auxiliary Generator #1**  
 Component  
**Front Right Auxiliary Engine**  
 Fluid  
**PETRO CANADA DURON HP 15W40 (--- 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: Oil and filters have been changed. The sample is from the oil before the change )

### 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		<b>WC0707616</b>	WC0763485	WC0763479
Sample Date	Client Info		<b>26 Feb 2023</b>	07 Jan 2023	30 Nov 2022
Machine Age	hrs	Client Info	<b>76322</b>	72286	74830
Oil Age	hrs	Client Info	<b>500</b>	516	500
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method		<b>NEG</b>	NEG	0.0

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	<b>27</b>	21	23
Chromium	ppm	ASTM D5185(m) >20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m) >2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >20	<b>1</b>	2	2
Lead	ppm	ASTM D5185(m) >40	<b>2</b>	4	16
Copper	ppm	ASTM D5185(m) >330	<b>17</b>	97	459
Tin	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	1	2
Antimony	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0	<b>1</b>	<1	3
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m) 60	<b>60</b>	58	58
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 1010	<b>972</b>	946	951
Calcium	ppm	ASTM D5185(m) 1070	<b>1122</b>	1114	1086
Phosphorus	ppm	ASTM D5185(m) 1150	<b>1007</b>	949	1000
Zinc	ppm	ASTM D5185(m) 1270	<b>1161</b>	1151	1159
Sulfur	ppm	ASTM D5185(m) 2060	<b>2308</b>	1890	1997
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>3</b>	9	▲ 25
Sodium	ppm	ASTM D5185(m)	<b>1</b>	2	6
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	<1	<1

## INFRA-RED

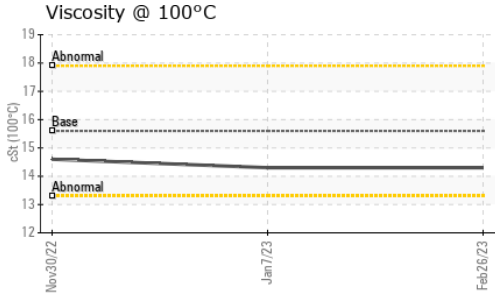
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	<b>0.2</b>	0	0
Nitration	Abs/cm	ASTM D7624* >20	<b>8.5</b>	9.3	9.6
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>22.4</b>	22.3	22.4

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	<b>18.3</b>	21.3	21.7



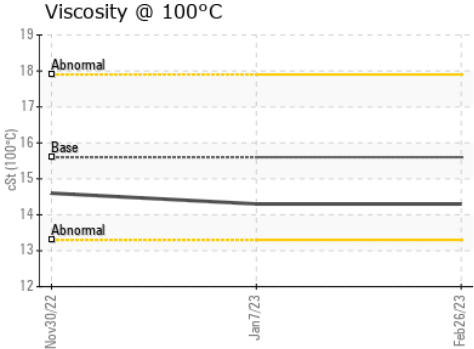
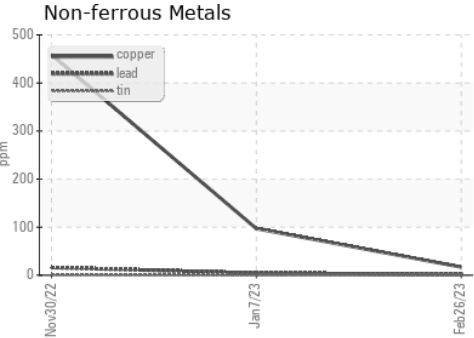
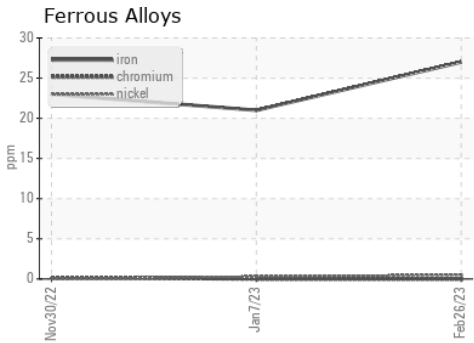
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	VLITE
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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>14.3</b>	14.3

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0707616 **Received** : 10 Mar 2023  
**Lab Number** : 02544201 **Diagnosed** : 13 Mar 2023  
**Unique Number** : 5541206 **Diagnostician** : Kevin Marson  
**Test Package** : MAR 1

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