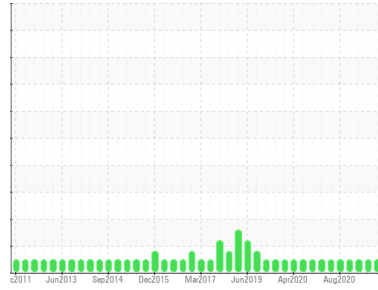


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**Fwd Machinery Space [450237364]**  
Machine Id  
**Pump Fire Water (Port) - Engine Crank Case (S/N Sample Tag PA-71001A-S1)**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON HP 15W40 (806 LTR)**

## 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PC</b>	PC	PC
Sample Date	Client Info	<b>15 Dec 2023</b>	08 Sep 2023	26 Feb 2023
Machine Age	hrs Client Info	<b>0</b>	0	0
Oil Age	hrs Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >6	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method >0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	<b>0</b>	0	0
Iron	ppm ASTM D5185(m) >100	<b>3</b>	3	3
Chromium	ppm ASTM D5185(m) >20	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m) >2	<b>0</b>	0	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) >25	<b>2</b>	1	<1
Lead	ppm ASTM D5185(m) >40	<b>2</b>	2	2
Copper	ppm ASTM D5185(m) >330	<b>8</b>	6	5
Tin	ppm ASTM D5185(m) >15	<b>&lt;1</b>	<1	<1
Antimony	ppm ASTM D5185(m)	<b>0</b>	0	<1
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>&lt;1</b>	<1	1
Barium	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m) 60	<b>54</b>	53	54
Manganese	ppm ASTM D5185(m) 0	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185(m) 1010	<b>901</b>	881	902
Calcium	ppm ASTM D5185(m) 1070	<b>965</b>	935	1000
Phosphorus	ppm ASTM D5185(m) 1150	<b>965</b>	972	1025
Zinc	ppm ASTM D5185(m) 1270	<b>1081</b>	1069	1089
Sulfur	ppm ASTM D5185(m) 2060	<b>2629</b>	2446	2533
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

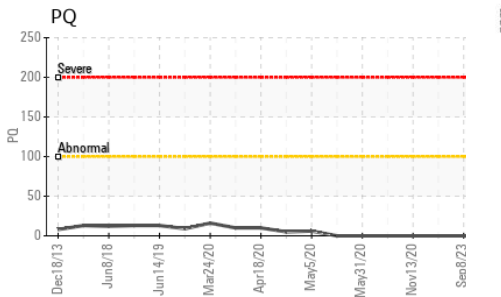
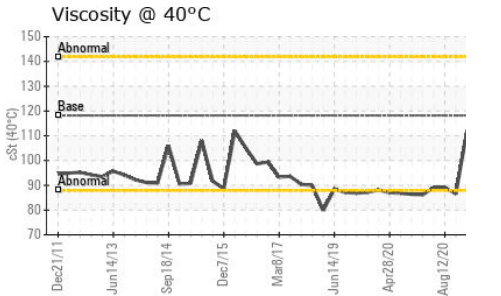
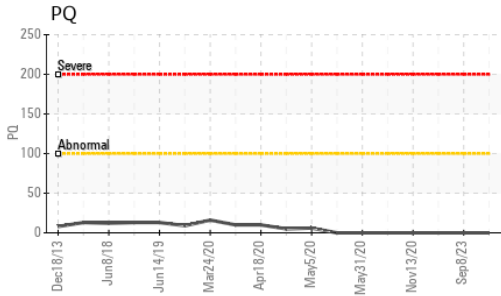
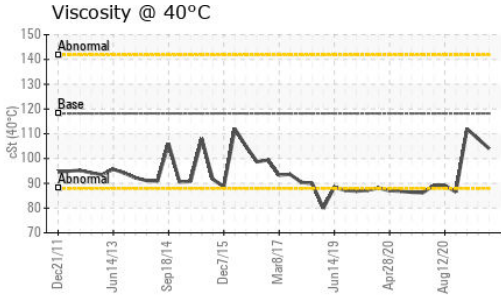
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	<b>3</b>	4	3
Sodium	ppm ASTM D5185(m)	<b>1</b>	2	2
Potassium	ppm ASTM D5185(m) >20	<b>0</b>	0	0

## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	<b>0</b>	0	0
Nitration	Abs/cm ASTM D7624* >20	<b>4.7</b>	4.3	4.6
Sulfation	Abs./1mm ASTM D7415* >30	<b>17.7</b>	17.1	20.0

# OIL ANALYSIS REPORT

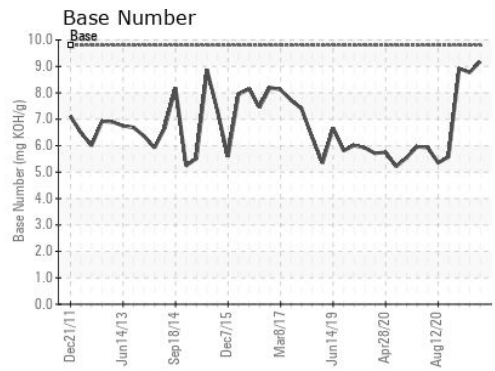
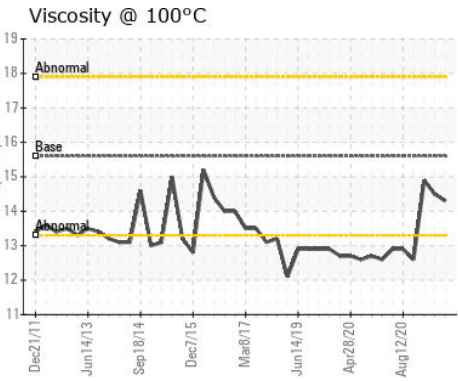
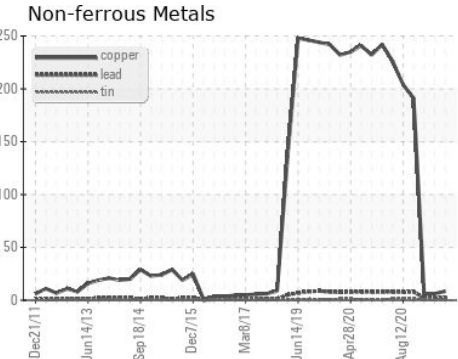
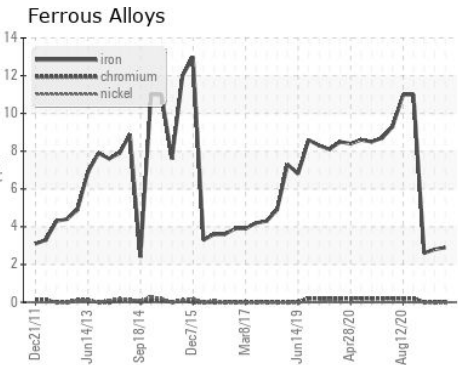


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>12.8</b>	12.0	13.1
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	<b>9.18</b>	8.77	8.92

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	<b>104</b>	108	112
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>14.3</b>	14.5	14.9
Viscosity Index (VI)	Scale	ASTM D2270*	139	<b>140</b>	137	137

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC  
**Lab Number** : **02609164**  
**Unique Number** : 5710250  
**Test Package** : MAR 2 ( Additional Tests: KV40, PQ, PrtCount, VI )

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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.