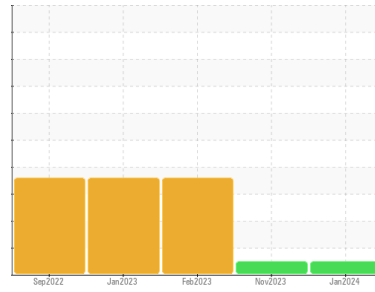




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**5 Utilities/031 Water Pumping/Gearbox/P Pump/751A #1 Fire Pump**  
 Machine Id  
**31EP751A #1 Fire Pump Engine**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON UHP E6 10W40 (--- 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>WC0902167</b>	WC0813226	WC0783266
Sample Date	Client Info		<b>04 Jan 2024</b>	02 Nov 2023	08 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	SEVERE

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<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	
Iron	ppm	ASTM D5185(m)	>100	<b>2</b>	1	2
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	<1	2
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	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	4
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>57</b>	62	59
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	80	<b>955</b>	1032	957
Calcium	ppm	ASTM D5185(m)	2400	<b>1028</b>	1102	1074
Phosphorus	ppm	ASTM D5185(m)	750	<b>984</b>	1087	1083
Zinc	ppm	ASTM D5185(m)	840	<b>1155</b>	1265	1164
Sulfur	ppm	ASTM D5185(m)	2130	<b>2552</b>	2795	2859
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

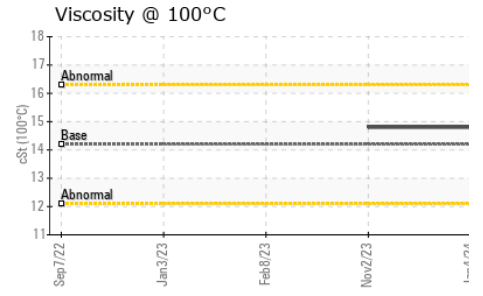
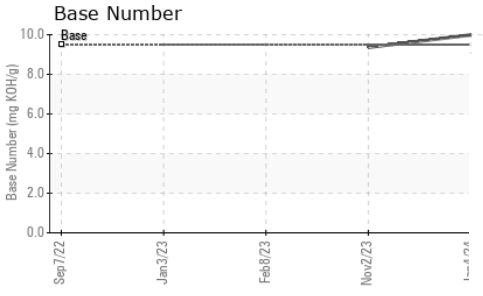
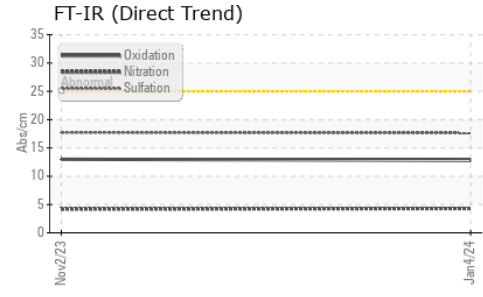
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	4	4
Sodium	ppm	ASTM D5185(m)		<b>1</b>	2	1
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	0

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>4.3</b>	4.2	---
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>17.6</b>	17.7	---



# OIL ANALYSIS REPORT

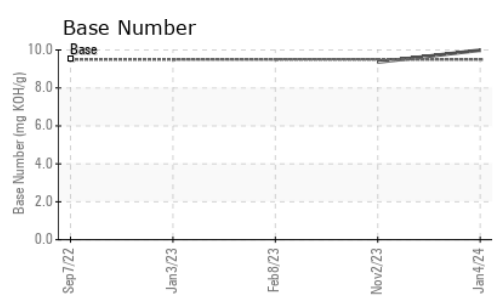
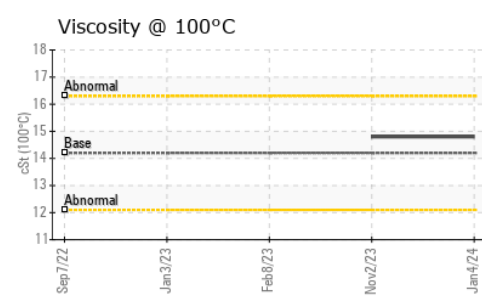
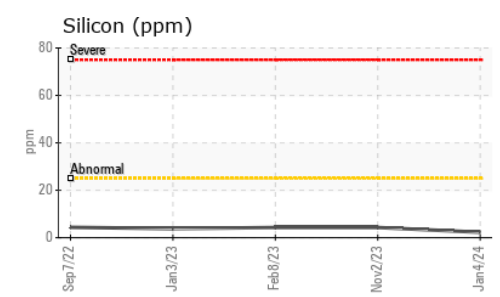
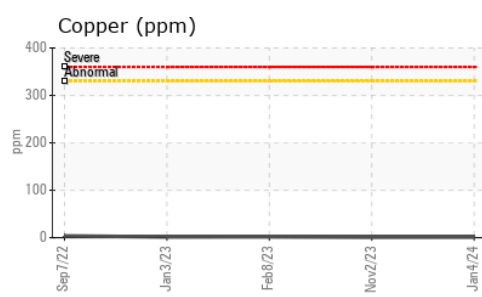
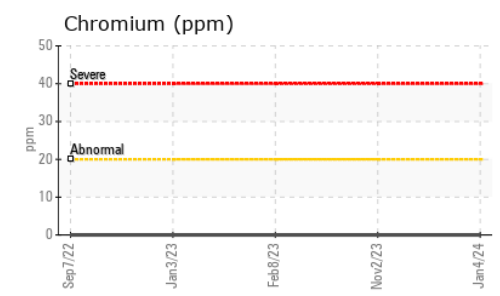
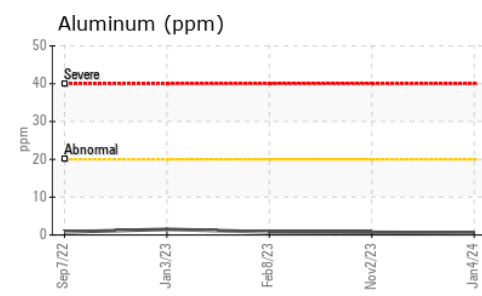
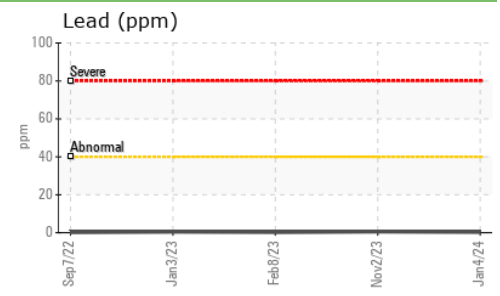
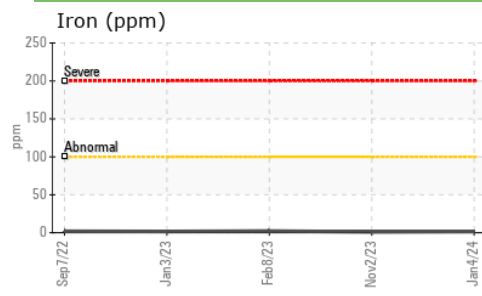


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.8</b>	13.0	---
Base Number (BN)	mg KOH/g	ASTM D2896*	9.5	<b>9.99</b>	9.36	---

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 @ 100°C	cSt	ASTM D7279(m)	14.2	<b>14.8</b>	14.8	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0902167      **Received** : 05 Apr 2024  
**Lab Number** : **02626921**      **Tested** : 08 Apr 2024  
**Unique Number** : 5760053      **Diagnosed** : 08 Apr 2024 - Wes Davis  
**Test Package** : MOB 2

**Petro Canada Lubricants Inc.**  
 385 Southdown Road  
 Mississauga, ON  
 CA L5J 2Y3  
 Contact: Martin Wagenaar  
 martin.wagenaar@HFSinclair.com  
 T: (905)403-5682  
 F: (905)822-6025

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.