



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
0148
 Component
Rear Diesel Engine
 Fluid
PETRO CANADA DURON HP 15W40 (24 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0082781	PC0077861	PC0031840
Sample Date		Client Info		13 Mar 2024	30 Nov 2023	06 Sep 2023
Machine Age	kms	Client Info		1099322	1085548	1069823
Oil Age	kms	Client Info		13576	15525	15485
Filter Age	kms	Client Info		13576	15525	15485
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	25	44	55
Chromium	ppm	ASTM D5185(m)	>20	<1	1	3
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	4	2
Lead	ppm	ASTM D5185(m)	>40	0	1	7
Copper	ppm	ASTM D5185(m)	>330	14	8	6
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

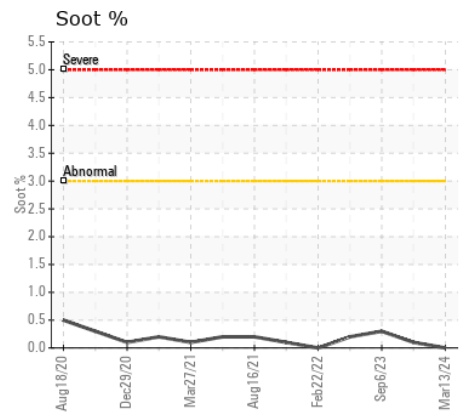
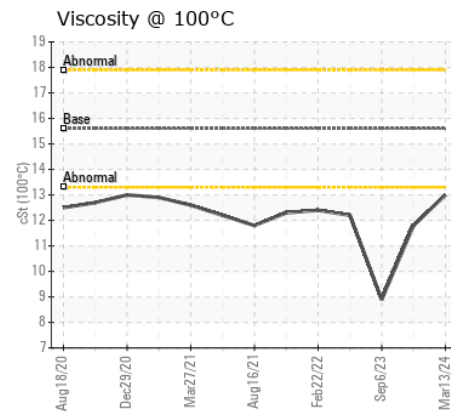
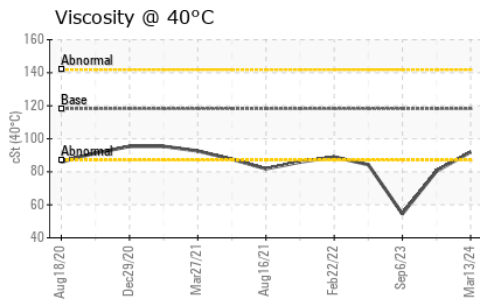
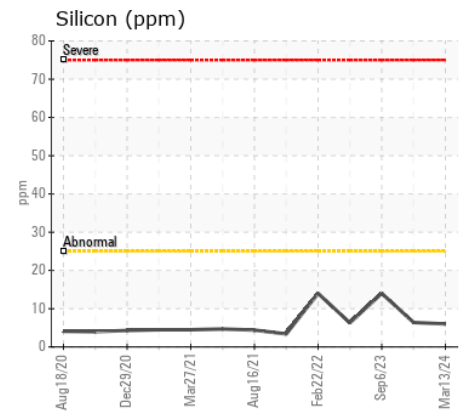
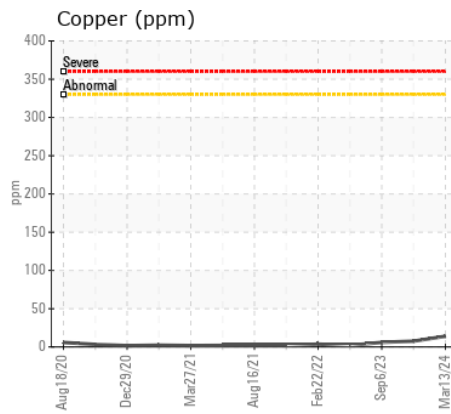
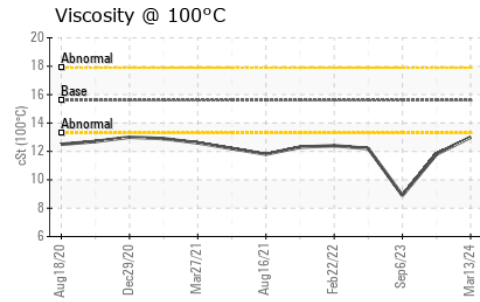
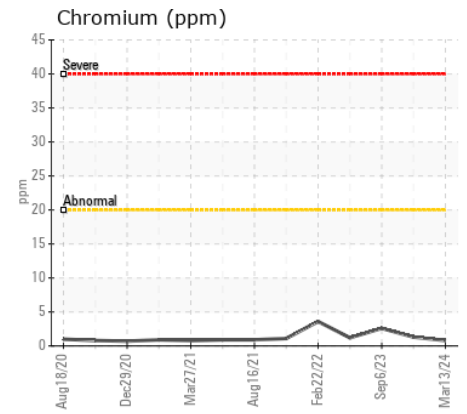
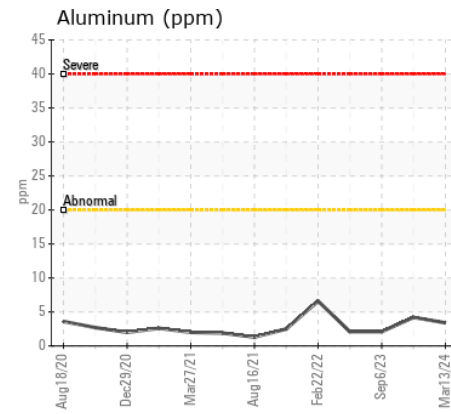
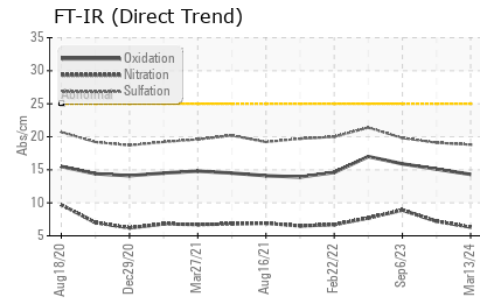
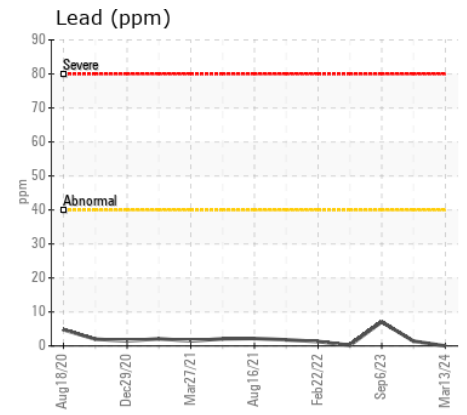
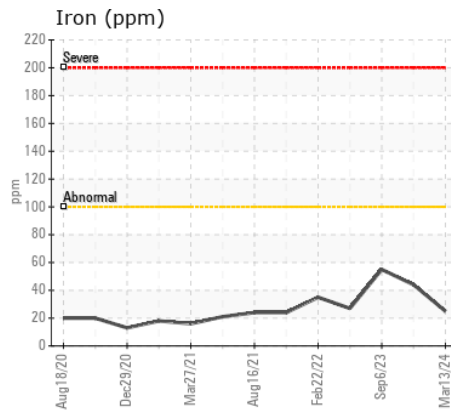
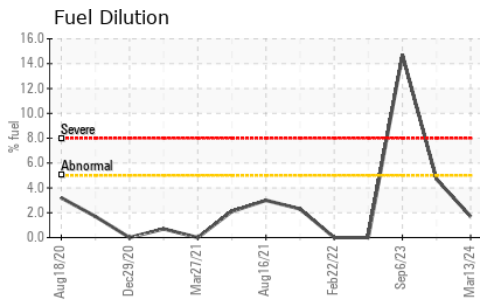
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	6	14
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Fuel	%	ASTM D7593*	>5	1.7	▲ 4.7	▲ 14.7
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0.1	0.3
Nitration	Abs/cm	ASTM D7624*	>20	6.3	7.2	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.8	19.1	19.8
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	VLITE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		6	5	11
Boron	ppm	ASTM D5185(m)	0	4	4	10
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	60	59	57	45
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	982	950	724
Calcium	ppm	ASTM D5185(m)	1070	1112	1089	1055
Phosphorus	ppm	ASTM D5185(m)	1150	1017	967	793
Zinc	ppm	ASTM D5185(m)	1270	1194	1192	1020
Sulfur	ppm	ASTM D5185(m)	2060	2579	2395	1884
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.3	15.1	15.9
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	92.0	▲ 80.4	▲ 54.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.0	▲ 11.8	▲ 8.9
Viscosity Index (VI)	Scale	ASTM D2270*	139	139	140	142



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0082781 **Received** : 05 Apr 2024
Lab Number : 02626866 **Tested** : 08 Apr 2024
Unique Number : 5759998 **Diagnosed** : 08 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI, Visual)

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.

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