



WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Machine Id
0860
 Component
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		PC0081945	PC0082740	PC0076639
Sample Date		Client Info		02 May 2024	05 Feb 2024	17 Nov 2023
Machine Age	kms	Client Info		920432	906307	892619
Oil Age	kms	Client Info		13924	13688	16419
Filter Age	kms	Client Info		13924	13688	16419
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	NORMAL	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	21	23	32
Chromium	ppm	ASTM D5185(m)	>20	<1	2	1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	3	2
Lead	ppm	ASTM D5185(m)	>40	2	3	3
Copper	ppm	ASTM D5185(m)	>330	6	5	2
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

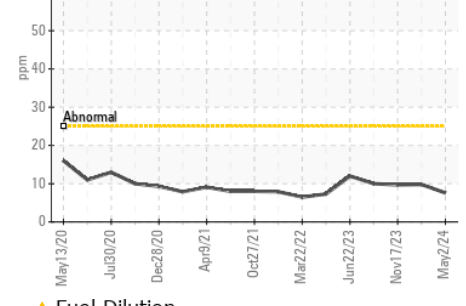
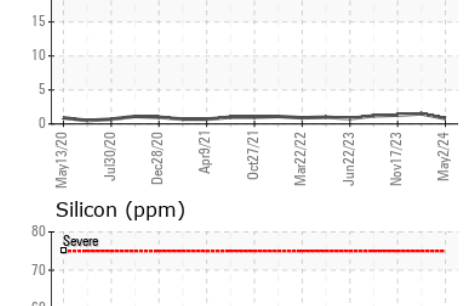
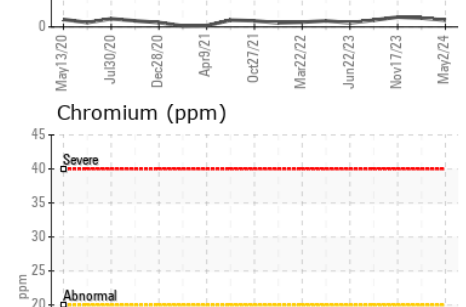
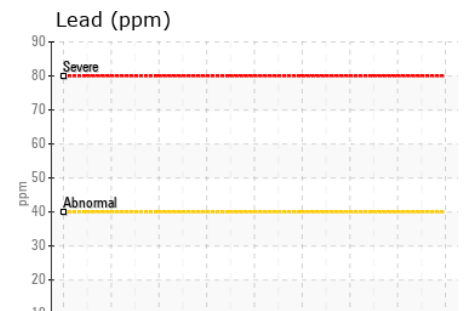
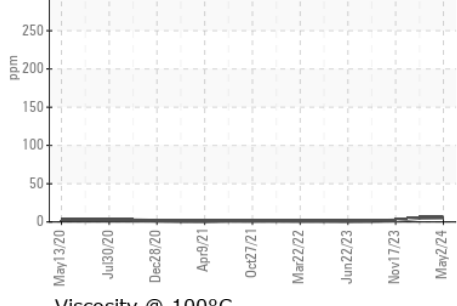
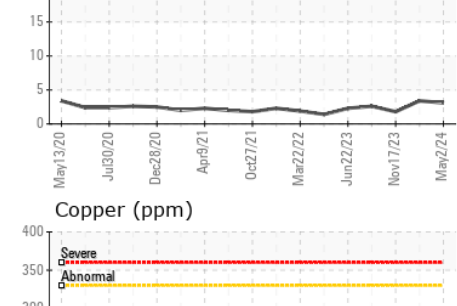
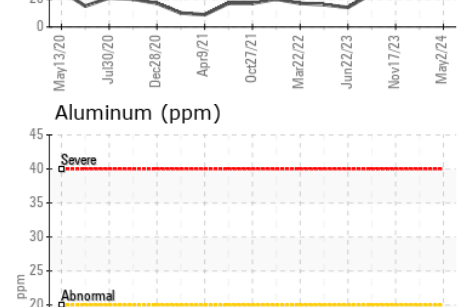
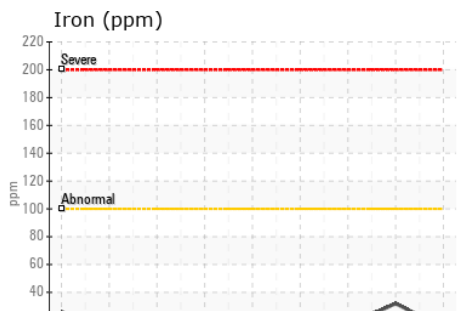
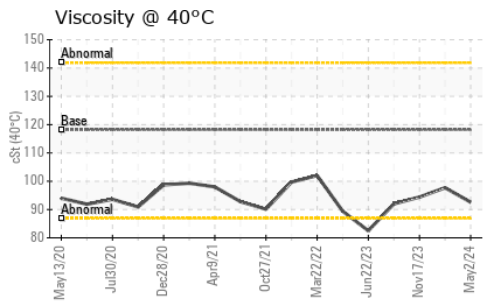
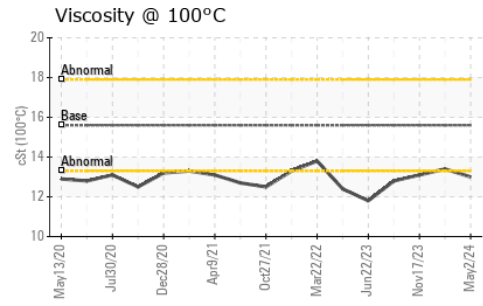
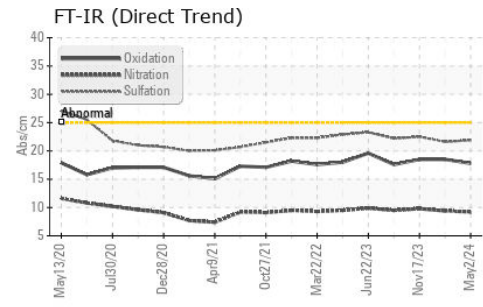
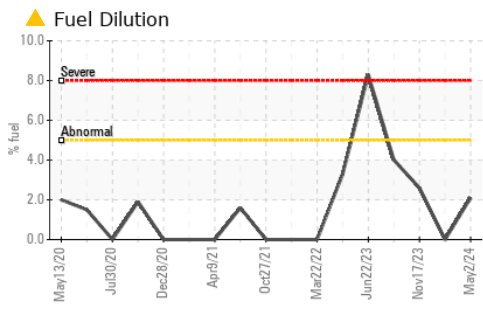
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	8	10	10
Potassium	ppm	ASTM D5185(m)	>20	<1	1	0
Fuel	%	ASTM D7593*	>5	▲ 2.1	<1.0	▲ 2.6
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.5	0.4	0.8
Nitration	Abs/cm	ASTM D7624*	>20	9.2	9.4	9.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.9	21.6	22.5
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	7	5
Boron	ppm	ASTM D5185(m)	0	2	5	4
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	61	62	63
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	1000	1003	1034
Calcium	ppm	ASTM D5185(m)	1070	1093	1165	1153
Phosphorus	ppm	ASTM D5185(m)	1150	1024	1056	1076
Zinc	ppm	ASTM D5185(m)	1270	1220	1240	1299
Sulfur	ppm	ASTM D5185(m)	2060	2412	2723	2625
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.8	18.5	18.5
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	92.6	97.7	94.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.0	13.4	13.1
Viscosity Index (VI)	Scale	ASTM D2270*	139	138	136	137



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0081945 **Received** : 29 May 2024
Lab Number : 02638328 **Tested** : 30 May 2024
Unique Number : 5787490 **Diagnosed** : 30 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI)

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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