



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
0860
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (24 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0082740	PC0076639	PC0031543
Sample Date		Client Info		05 Feb 2024	17 Nov 2023	30 Aug 2023
Machine Age	kms	Client Info		906307	892619	876200
Oil Age	kms	Client Info		13688	16419	876200
Filter Age	kms	Client Info		13688	16419	876200
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	MARGINAL	MARGINAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	23	32	24
Chromium	ppm	ASTM D5185(m)	>20	2	1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	3	2	3
Lead	ppm	ASTM D5185(m)	>40	3	3	2
Copper	ppm	ASTM D5185(m)	>330	5	2	1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

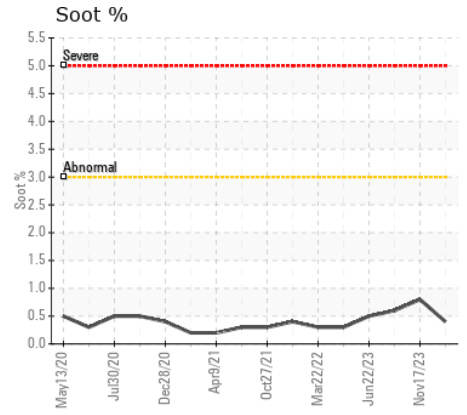
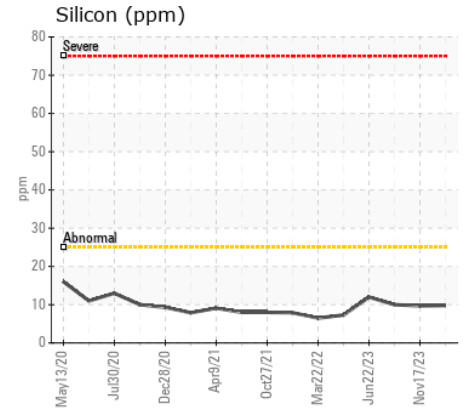
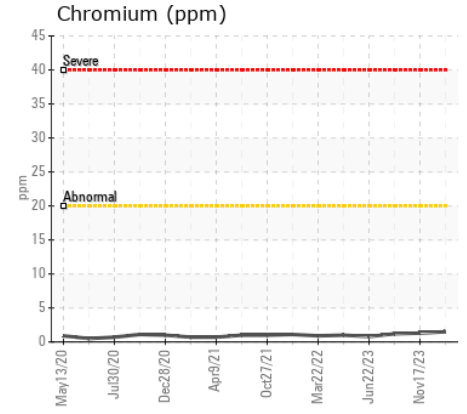
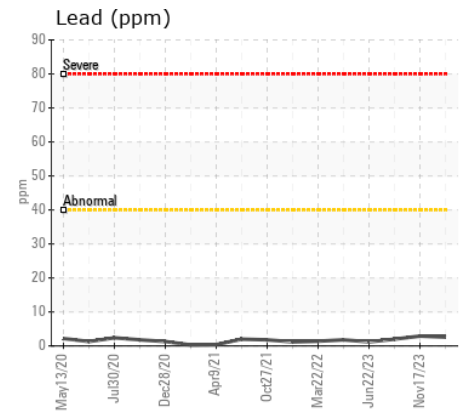
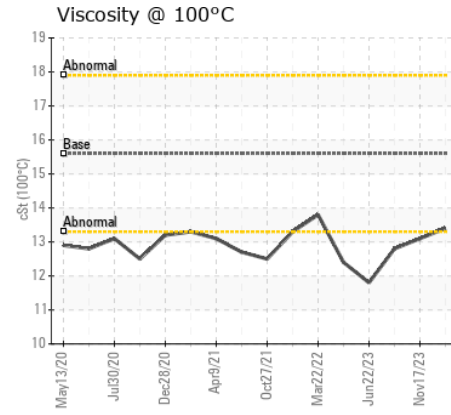
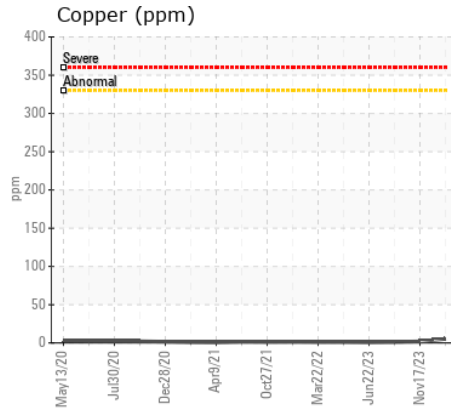
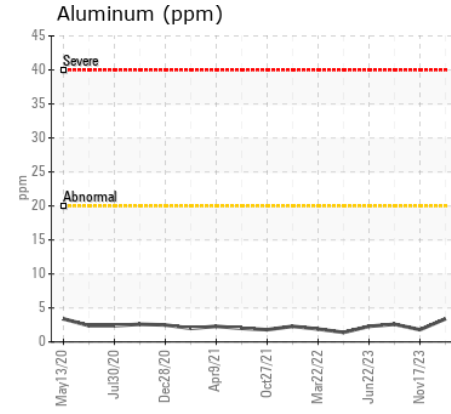
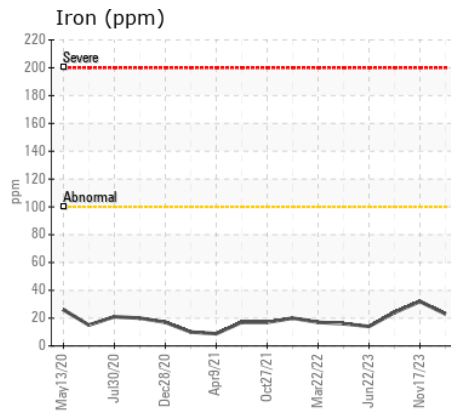
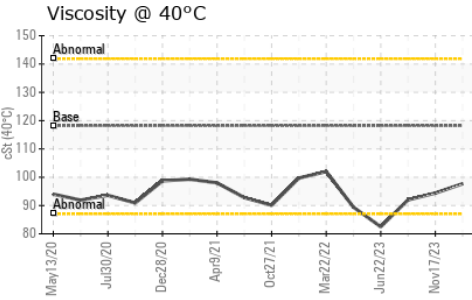
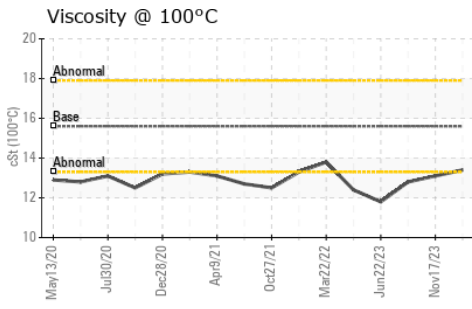
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	10	10	10
Potassium	ppm	ASTM D5185(m)	>20	1	0	2
Fuel		WC Method	>5	<1.0	▲ 2.6	▲ 4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.4	0.8	0.6
Nitration	Abs/cm	ASTM D7624*	>20	9.4	9.8	9.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.6	22.5	22.2
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)		7	5	6
Boron	ppm	ASTM D5185(m)	0	5	4	12
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	62	63	54
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	1003	1034	871
Calcium	ppm	ASTM D5185(m)	1070	1165	1153	1216
Phosphorus	ppm	ASTM D5185(m)	1150	1056	1076	1080
Zinc	ppm	ASTM D5185(m)	1270	1240	1299	1204
Sulfur	ppm	ASTM D5185(m)	2060	2723	2625	2536
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.5	18.5	17.6
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	97.7	94.4	92.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.4	13.1	12.8
Viscosity Index (VI)	Scale	ASTM D2270*	139	136	137	136



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0082740
Lab Number : 02617605
Unique Number : 5734715
Test Package : MOB 1 (Additional Tests: KV40, VI)

Received : 23 Feb 2024
Tested : 23 Feb 2024
Diagnosed : 23 Feb 2024 - Wes Davis

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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