

Machine Id
78
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)

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.

WEAR

All component wear rates are normal.

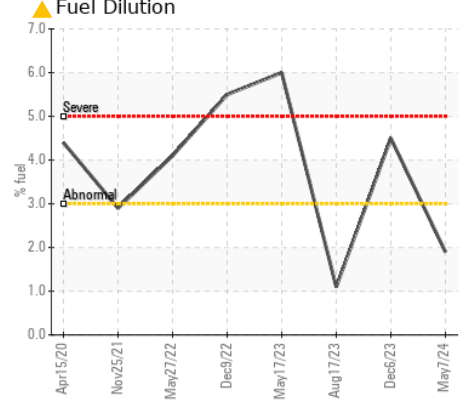
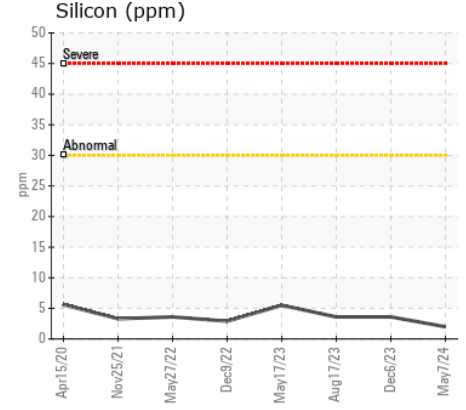
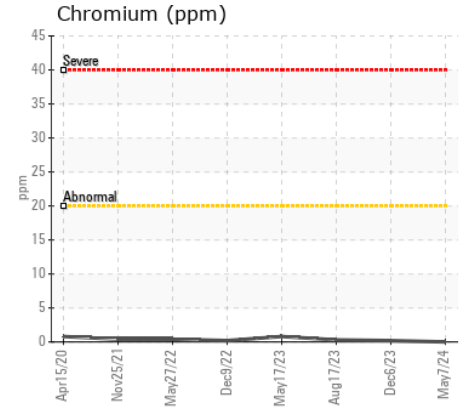
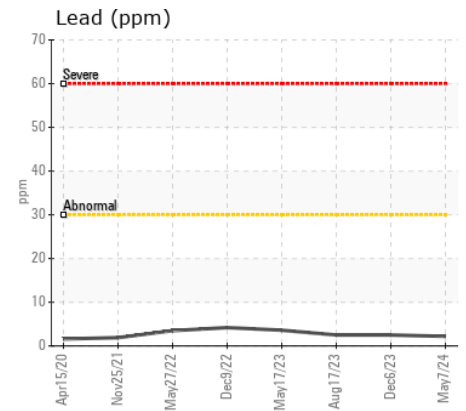
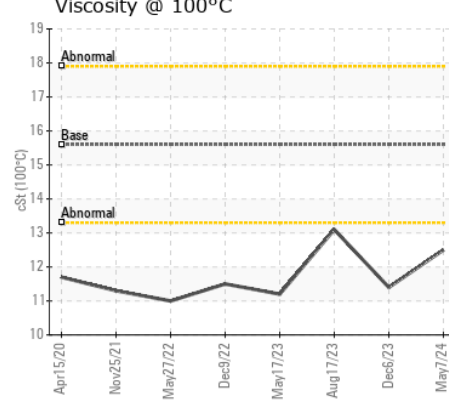
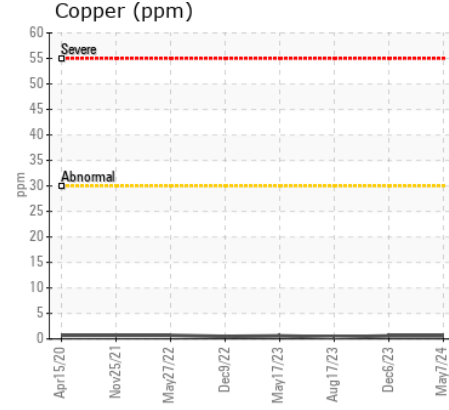
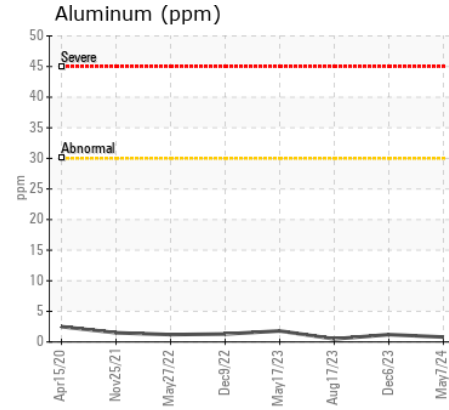
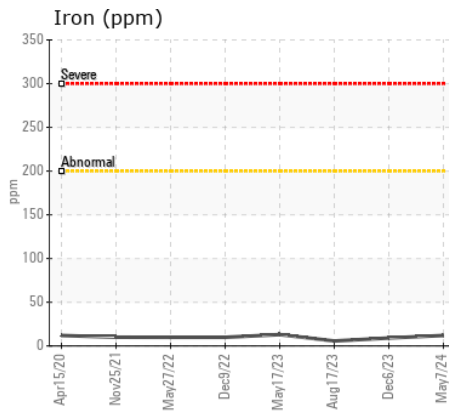
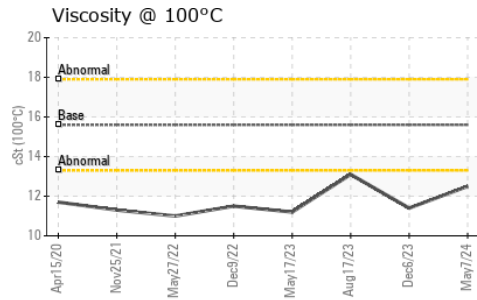
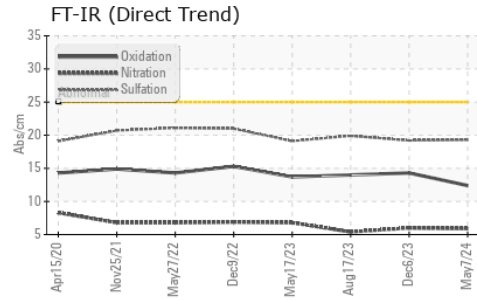
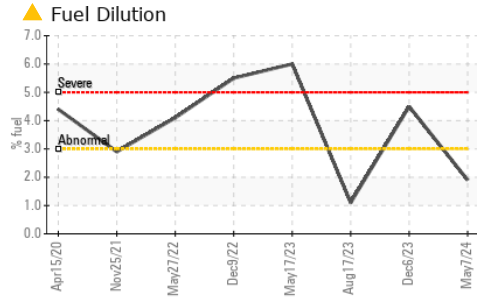
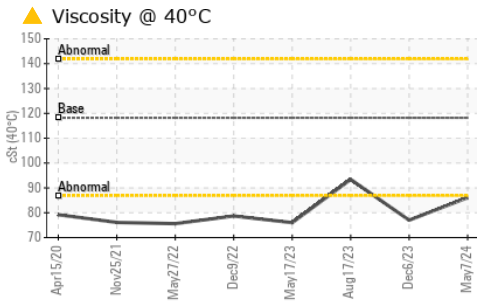
CONTAMINATION

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

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0078280	PC0071676	PC0077496
Sample Date		Client Info		07 May 2024	06 Dec 2023	17 Aug 2023
Machine Age	kms	Client Info		859568	39189	34361
Oil Age	kms	Client Info		8000	8000	0
Filter Age	kms	Client Info		8000	8000	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>200	12	9	6
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>30	<1	1	<1
Lead	ppm	ASTM D5185(m)	>30	2	2	2
Copper	ppm	ASTM D5185(m)	>30	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>30	2	4	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>3.0	▲ 1.9	▲ 4.5	1.1
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	1.2	0.6	0.4
Nitration	Abs/cm	ASTM D7624*	>20	5.9	6.0	5.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.3	19.2	19.9
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		2	2	2
Boron	ppm	ASTM D5185(m)	0	13	9	2
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	61	58	57
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	931	917	952
Calcium	ppm	ASTM D5185(m)	1070	1044	1036	1013
Phosphorus	ppm	ASTM D5185(m)	1150	975	969	1038
Zinc	ppm	ASTM D5185(m)	1270	1142	1132	1153
Sulfur	ppm	ASTM D5185(m)	2060	2571	2561	2606
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.4	14.3	14.0
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	▲ 86.1	▲ 77.0	93.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	12.5	▲ 11.4	13.1
Viscosity Index (VI)	Scale	ASTM D2270*	139	141	139	138



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078280 **Received** : 13 May 2024
Lab Number : 02634883 **Tested** : 14 May 2024
Unique Number : 5776036 **Diagnosed** : 14 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: 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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