

Machine Id
124-1323
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0073056	PC0071387	PC0065608
Sample Date		Client Info		08 Jan 2024	05 Jun 2023	17 Jan 2023
Machine Age	hrs	Client Info		19746	18680	18177
Oil Age	hrs	Client Info		1000	500	500
Filter Age	hrs	Client Info		1000	500	500
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	10	6	8
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>5	1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	3	6
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	2	1	2
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

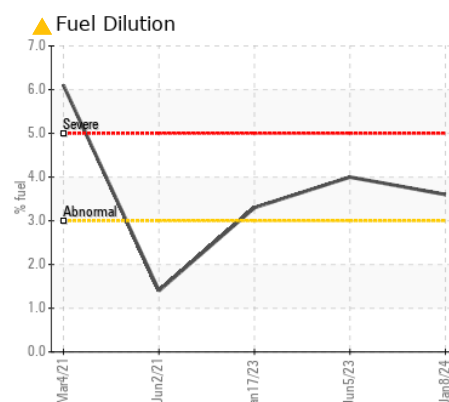
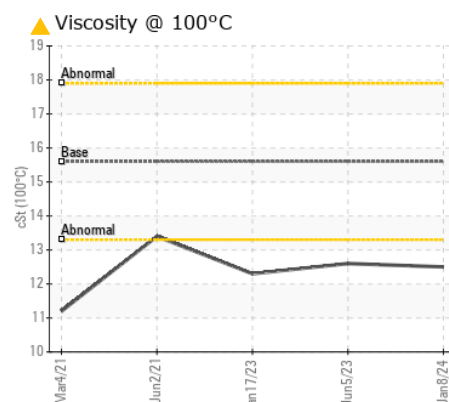
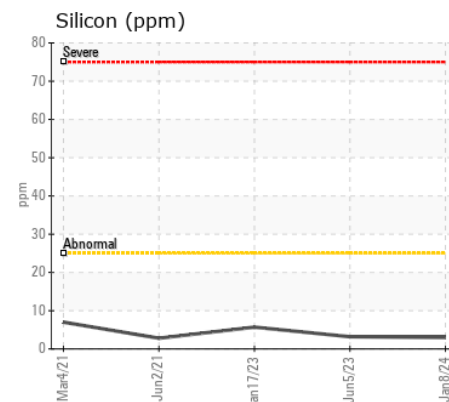
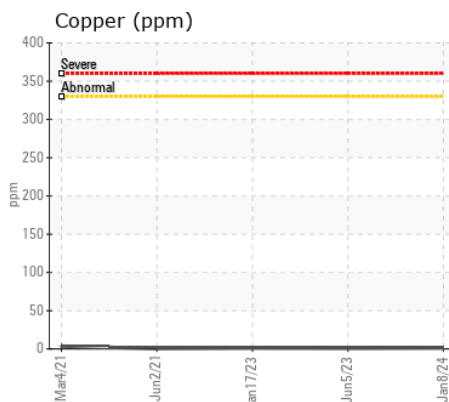
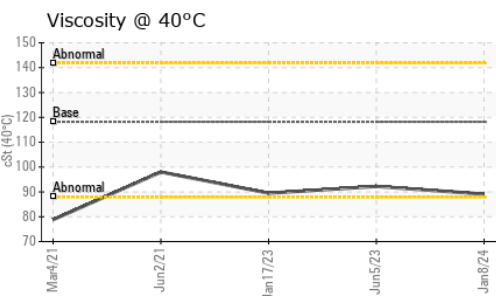
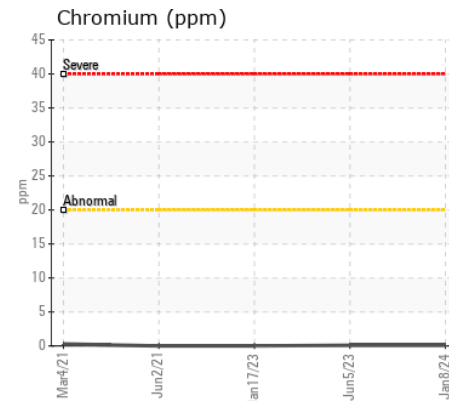
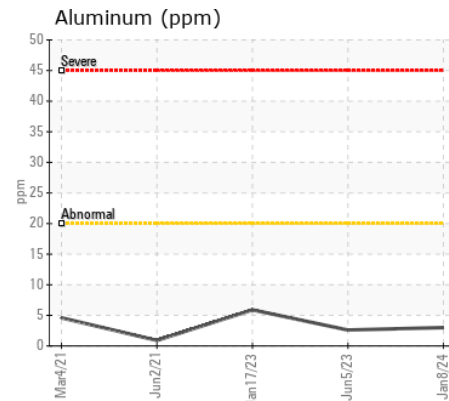
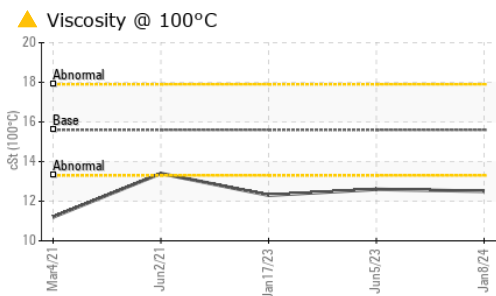
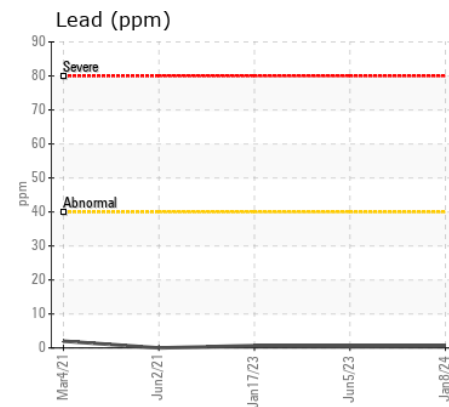
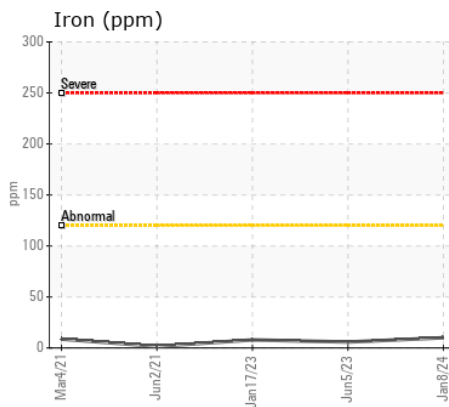
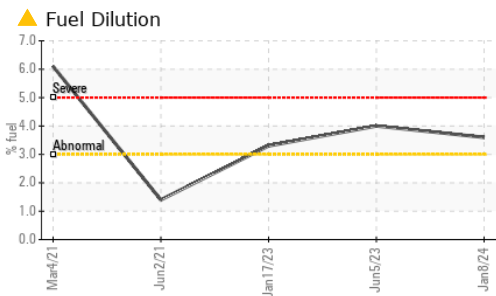
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	3	6
Potassium	ppm	ASTM D5185(m)	>20	3	<1	<1
Fuel	%	ASTM D7593*	>3.0	▲ 3.6	▲ 4	▲ 3.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>4	0.1	0	0
Nitration	Abs/cm	ASTM D7624*	>20	9.9	8.4	10.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.5	19.3	24.5
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		10	7	6
Boron	ppm	ASTM D5185(m)	0	3	12	▲ 185
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	56	63	112
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	904	940	▲ 646
Calcium	ppm	ASTM D5185(m)	1070	1006	1075	▲ 1484
Phosphorus	ppm	ASTM D5185(m)	1150	910	1032	▲ 722
Zinc	ppm	ASTM D5185(m)	1270	1110	1150	▲ 756
Sulfur	ppm	ASTM D5185(m)	2060	2310	2462	2036
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.1	16.0	19.1
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	89.1	92.2	89.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	▲ 12.5	▲ 12.6	12.3
Viscosity Index (VI)	Scale	ASTM D2270*	139	136	132	131



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0073056 **Received** : 18 Jan 2024
Lab Number : 02609602 **Diagnosed** : 19 Jan 2024
Unique Number : 5710688 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, PercentFuel, VI)

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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.