



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL



Machine Id
901083
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (40 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC956155	WC956164	---
Sample Date		Client Info		28 May 2024	25 Jan 2024	---
Machine Age	kms	Client Info		381340	19730	---
Oil Age	kms	Client Info		0	0	---
Filter Age	kms	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	12	15	---
Chromium	ppm	ASTM D5185(m)	>20	0	<1	---
Nickel	ppm	ASTM D5185(m)	>5	0	<1	---
Titanium	ppm	ASTM D5185(m)	>2	0	0	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	4	4	---
Lead	ppm	ASTM D5185(m)	>40	0	<1	---
Copper	ppm	ASTM D5185(m)	>330	1	2	---
Tin	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

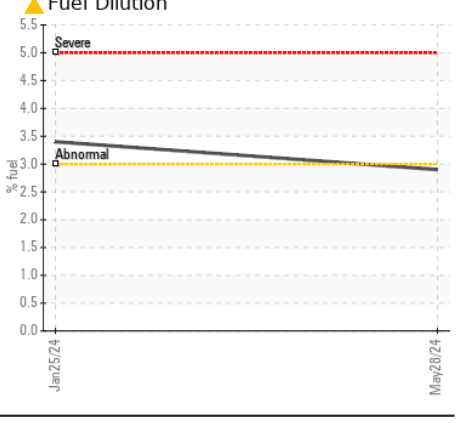
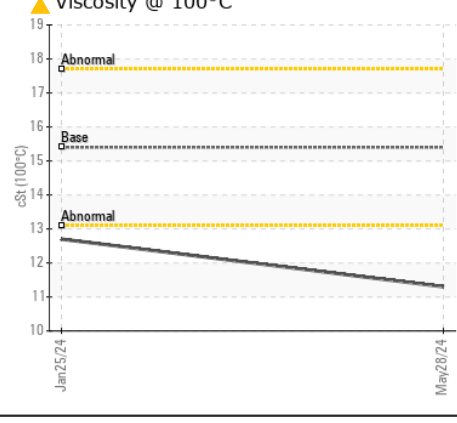
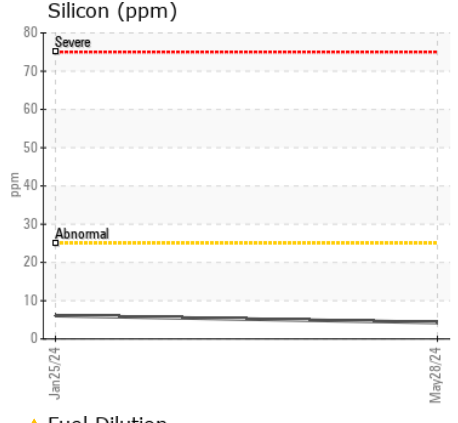
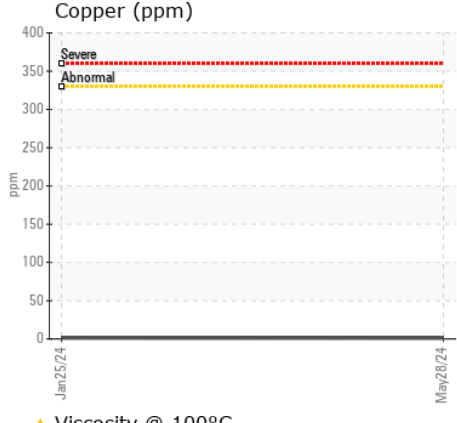
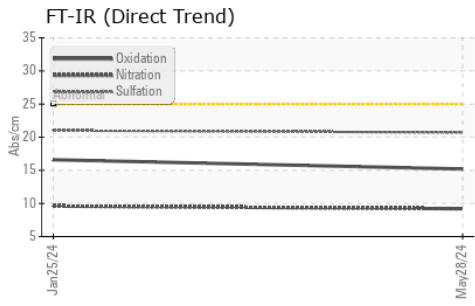
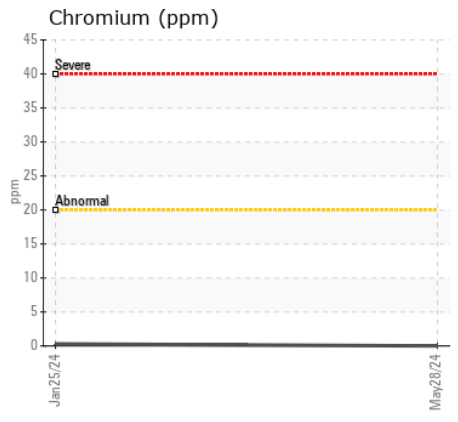
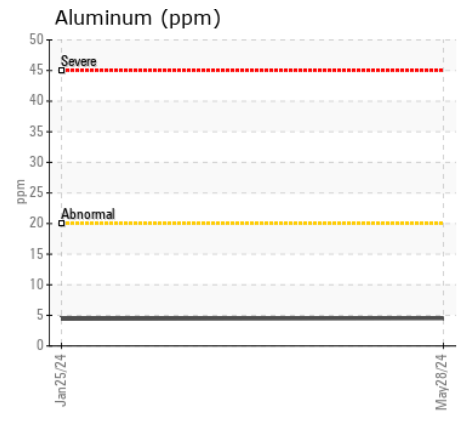
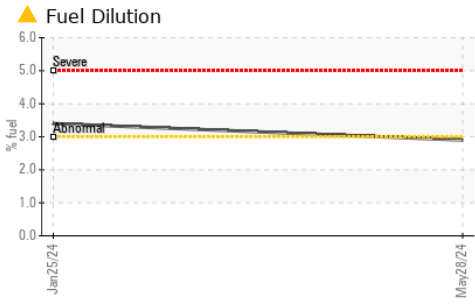
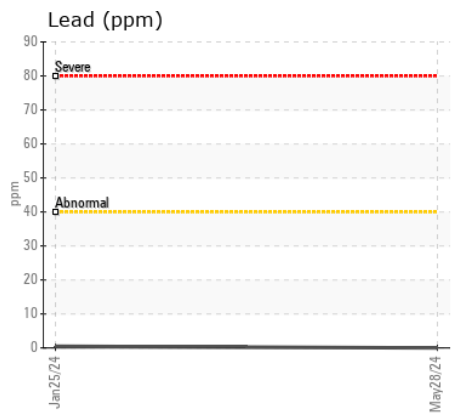
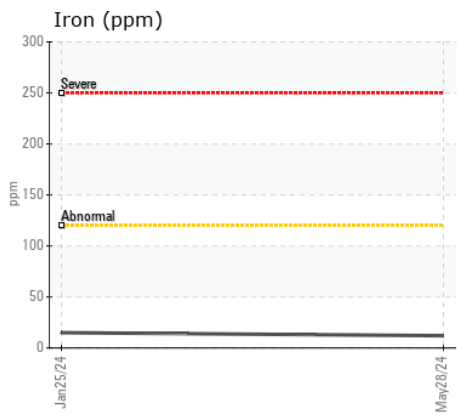
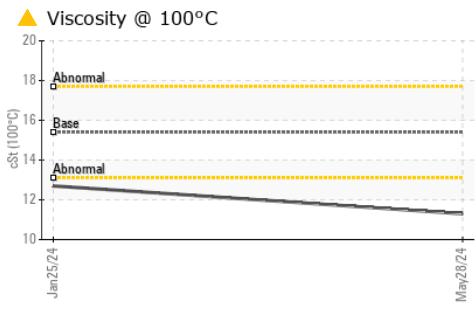
Light fuel dilution occurring.

Silicon	ppm	ASTM D5185(m)	>25	4	6	---
Potassium	ppm	ASTM D5185(m)	>20	2	2	---
Fuel	%	ASTM D7593*	>3.0	▲ 2.9	▲ 3.4	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>4	0.1	0.1	---
Nitration	Abs/cm	ASTM D7624*	>20	9.2	9.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.7	21.0	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		14	5	---
Boron	ppm	ASTM D5185(m)	0	13	4	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	60	49	57	---
Manganese	ppm	ASTM D5185(m)	0	0	0	---
Magnesium	ppm	ASTM D5185(m)	1010	717	902	---
Calcium	ppm	ASTM D5185(m)	1070	1296	1056	---
Phosphorus	ppm	ASTM D5185(m)	1150	863	916	---
Zinc	ppm	ASTM D5185(m)	1270	1046	1137	---
Sulfur	ppm	ASTM D5185(m)	2060	2193	2538	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.2	16.6	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ 11.3	▲ 12.7	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC956155 **Received** : 03 Jun 2024
Lab Number : 02639317 **Tested** : 04 Jun 2024
Unique Number : 5788479 **Diagnosed** : 04 Jun 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: PercentFuel, Visual)

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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.