



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
900187
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. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC956167	WC956139	---
Sample Date		Client Info		09 Feb 2024	08 Jun 2023	---
Machine Age	kms	Client Info		281557	14706	---
Oil Age	kms	Client Info		0	1200	---
Filter Age	kms	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	19	32	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	---
Titanium	ppm	ASTM D5185(m)	>2	0	<1	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	4	9	---
Lead	ppm	ASTM D5185(m)	>40	<1	5	---
Copper	ppm	ASTM D5185(m)	>330	2	8	---
Tin	ppm	ASTM D5185(m)	>15	<1	1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

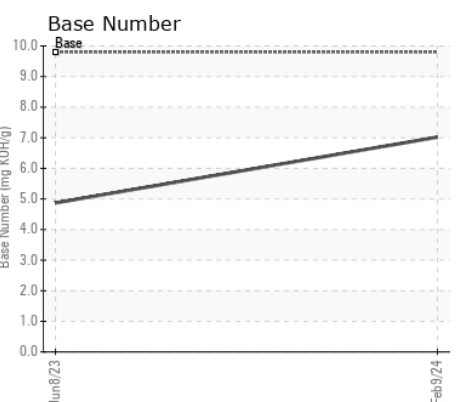
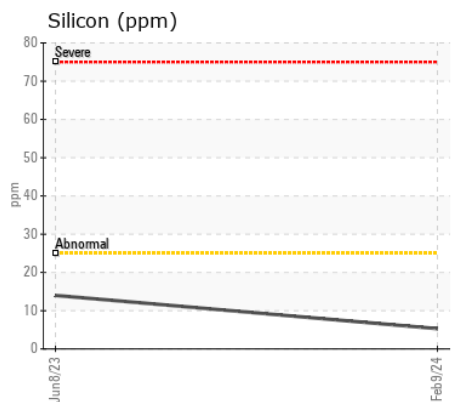
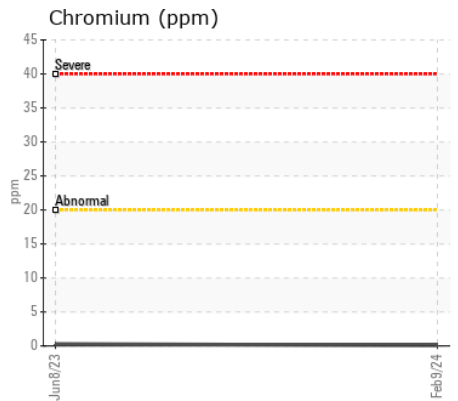
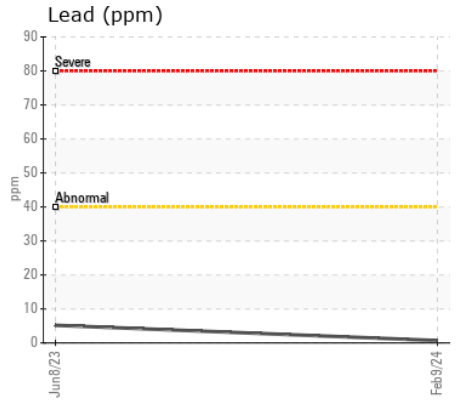
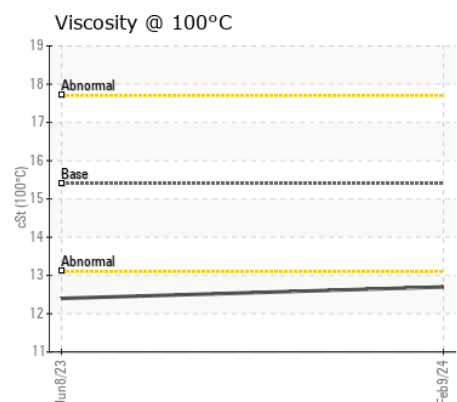
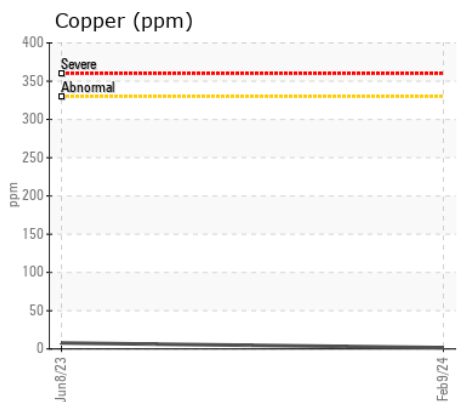
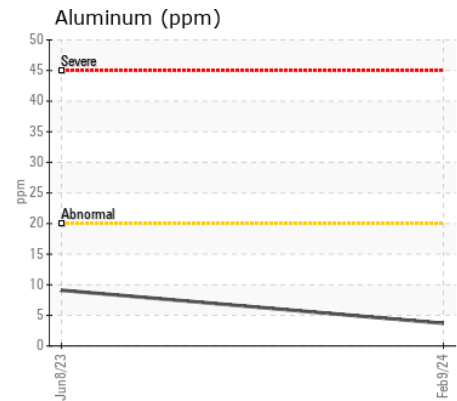
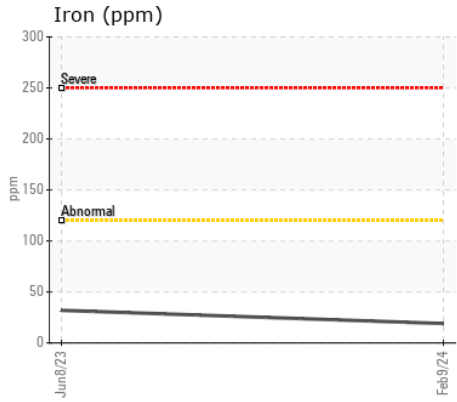
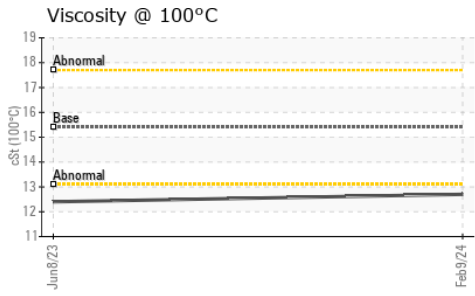
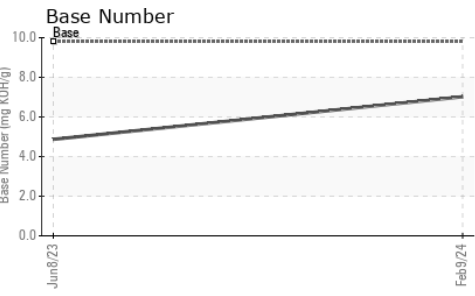
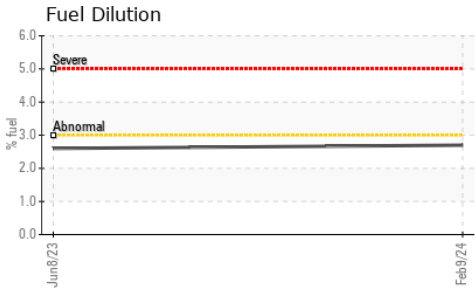
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	14	---
Potassium	ppm	ASTM D5185(m)	>20	1	2	---
Fuel	%	ASTM D7593*	>3.0	2.7	2.6	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>4	0.3	0.5	---
Nitration	Abs/cm	ASTM D7624*	>20	8.6	11.1	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.1	25.2	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		4	5	---
Boron	ppm	ASTM D5185(m)	0	8	43	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	60	57	111	---
Manganese	ppm	ASTM D5185(m)	0	0	<1	---
Magnesium	ppm	ASTM D5185(m)	1010	897	696	---
Calcium	ppm	ASTM D5185(m)	1070	1010	1555	---
Phosphorus	ppm	ASTM D5185(m)	1150	938	784	---
Zinc	ppm	ASTM D5185(m)	1270	1091	872	---
Sulfur	ppm	ASTM D5185(m)	2060	2357	2032	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.5	22.0	---
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	7.02	4.87	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	12.7	▲ 12.4	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC956167 **Received** : 21 Feb 2024
Lab Number : 02616899 **Tested** : 22 Feb 2024
Unique Number : 5734009 **Diagnosed** : 22 Feb 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

GFL Environmental - 870 - St John s
 19 Harding Road,
 St. John's, NL
 CA A1A 5T8
 Contact: Angus Molloy
 amolloy@gflenv.com
 T: (709)739-9302
 F:

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.