



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
501027
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0116394	GFL0107918	---
Sample Date		Client Info		24 Jun 2024	11 Mar 2024	---
Machine Age	kms	Client Info		441506	11839	---
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				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	18	15	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	<1	0	---
Aluminum	ppm	ASTM D5185(m)	>20	2	2	---
Lead	ppm	ASTM D5185(m)	>40	<1	<1	---
Copper	ppm	ASTM D5185(m)	>330	2	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

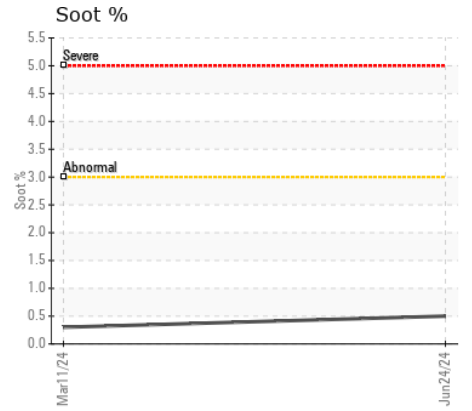
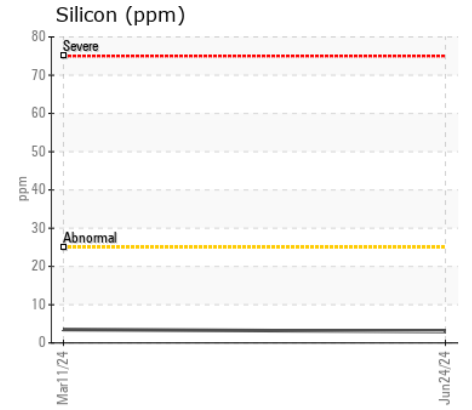
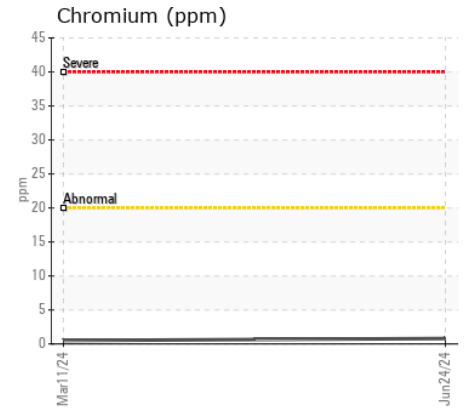
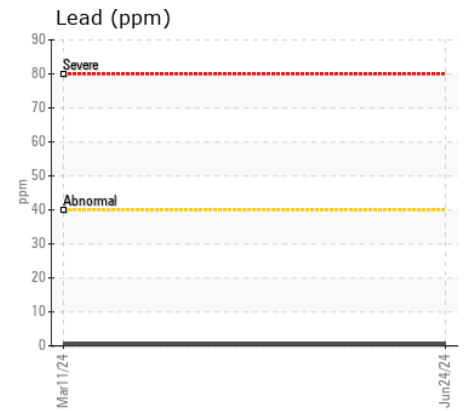
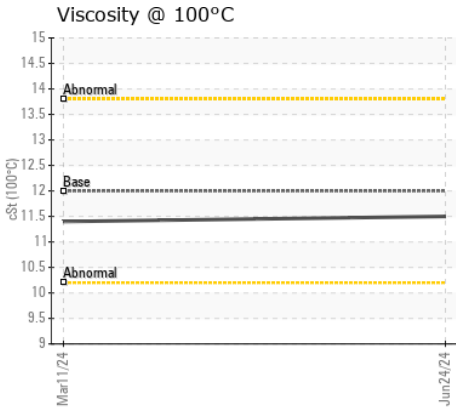
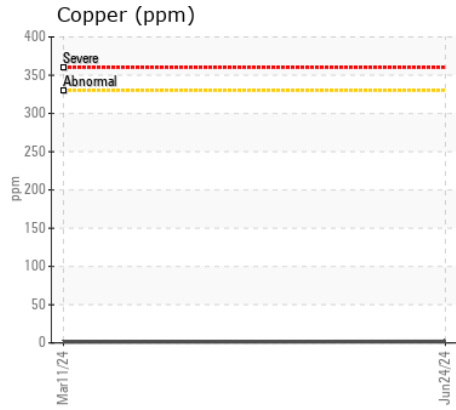
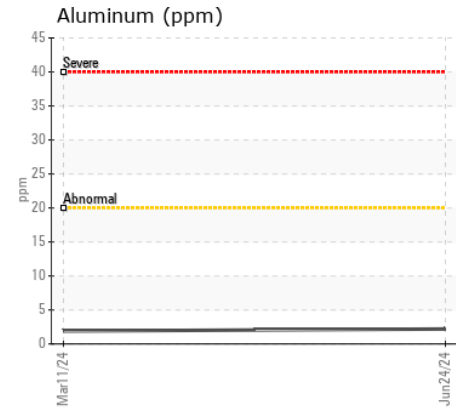
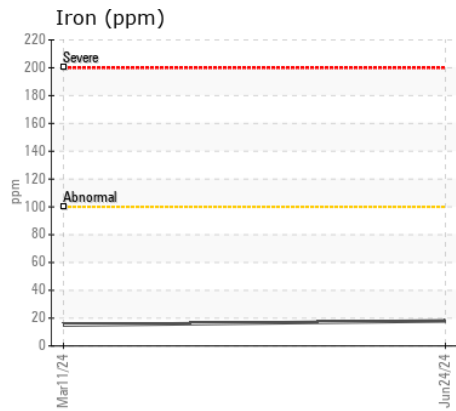
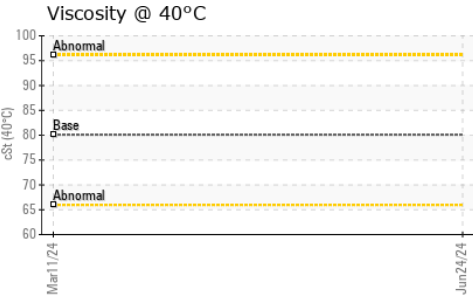
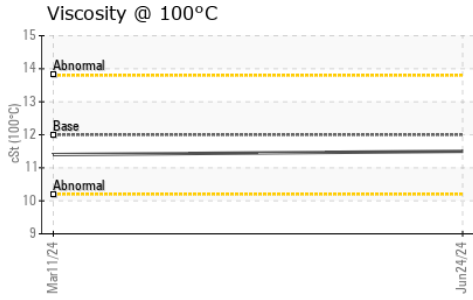
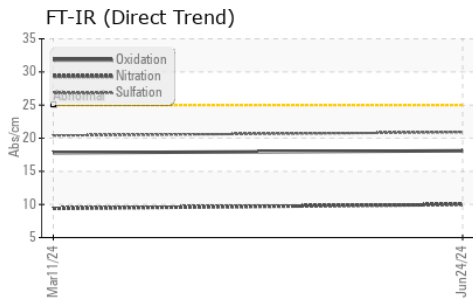
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	4	---
Potassium	ppm	ASTM D5185(m)	>20	<1	2	---
Fuel		WC Method	>2.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0.5	0.3	---
Nitration	Abs/cm	ASTM D7624*	>20	10.0	9.4	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.9	20.4	---
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

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

Sodium	ppm	ASTM D5185(m)		5	4	---
Boron	ppm	ASTM D5185(m)	2	2	<1	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	50	61	62	---
Manganese	ppm	ASTM D5185(m)	0	<1	0	---
Magnesium	ppm	ASTM D5185(m)	950	1002	1008	---
Calcium	ppm	ASTM D5185(m)	1050	1079	1084	---
Phosphorus	ppm	ASTM D5185(m)	995	1012	1062	---
Zinc	ppm	ASTM D5185(m)	1180	1239	1240	---
Sulfur	ppm	ASTM D5185(m)	2600	2509	2747	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.1	17.8	---
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	77.0	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.5	11.4	---
Viscosity Index (VI)	Scale	ASTM D2270*	144	141	---	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Sample No. : GFL0116394

Lab Number : 02644756

Unique Number : 5802295

Test Package : MOB 1 (Additional Tests: KV40, VI, Visual)

Received : 02 Jul 2024

Tested : 02 Jul 2024

Diagnosed : 02 Jul 2024 - Wes Davis

GFL Environmental - 350 - Emeral Park Regina

2B Industrial Drive., Great Plains Industrial Park,

Emerald Park, SK

CA S4L 1B6

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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.