



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
914034
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0125442	GFL0116162	---
Sample Date		Client Info		17 Jun 2024	20 Mar 2024	---
Machine Age	hrs	Client Info		1258	634	---
Oil Age	hrs	Client Info		624	634	---
Filter Age	hrs	Client Info		624	600	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ATTENTION	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	27	53	---
Chromium	ppm	ASTM D5185m	>20	<1	1	---
Nickel	ppm	ASTM D5185m	>5	1	4	---
Titanium	ppm	ASTM D5185m	>2	0	<1	---
Silver	ppm	ASTM D5185m	>2	1	0	---
Aluminum	ppm	ASTM D5185m	>20	2	6	---
Lead	ppm	ASTM D5185m	>40	0	<1	---
Copper	ppm	ASTM D5185m	>330	218	96	---
Tin	ppm	ASTM D5185m	>15	2	3	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

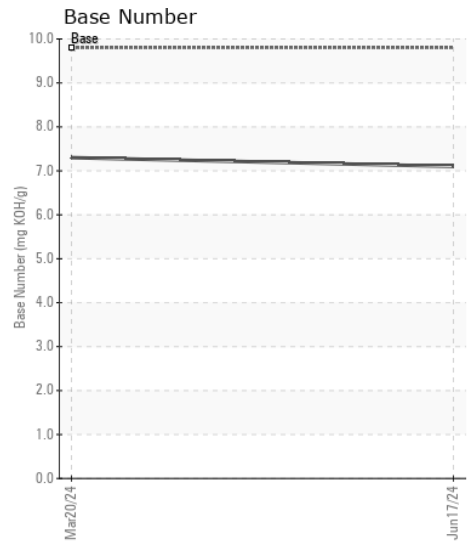
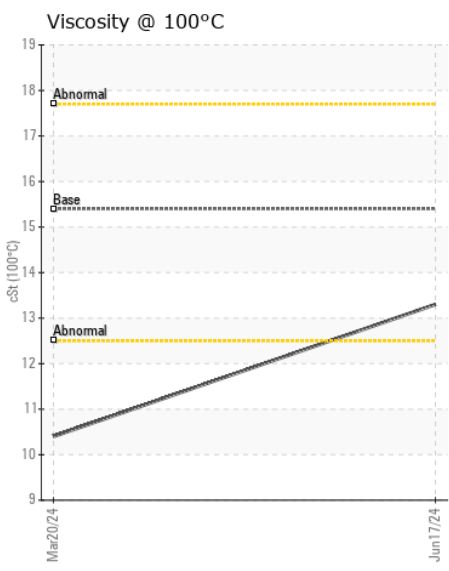
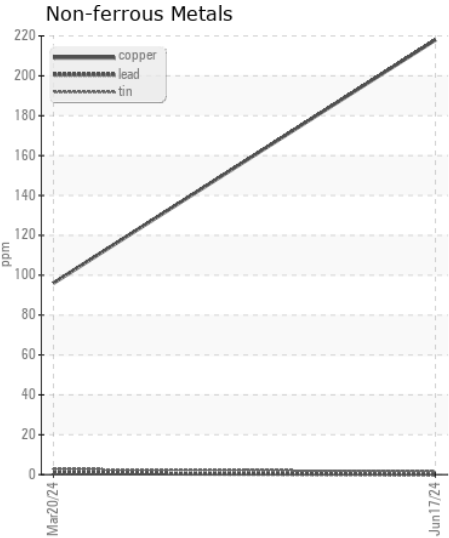
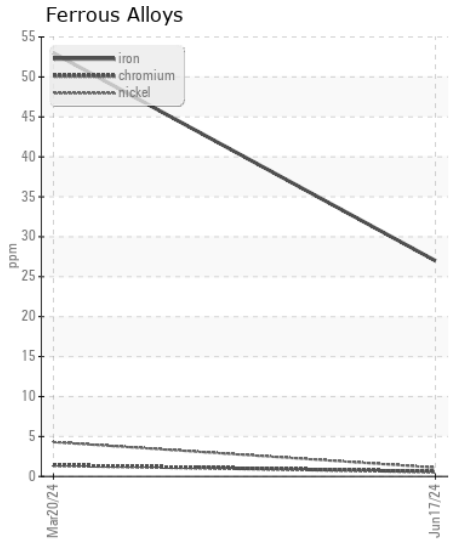
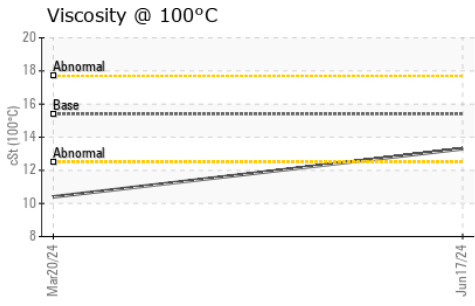
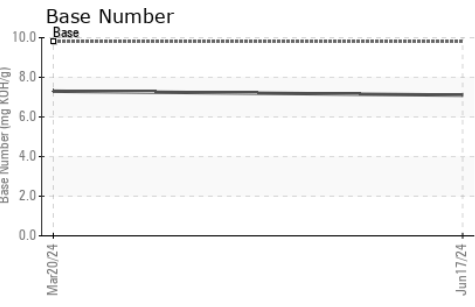
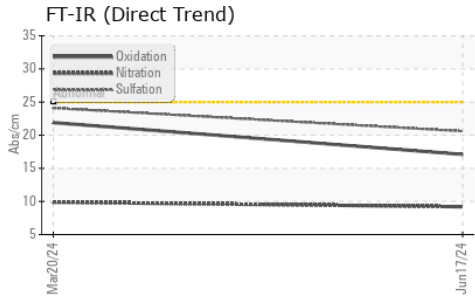
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	10	63	---
Potassium	ppm	ASTM D5185m	>20	5	6	---
Fuel		WC Method	>3.0	<1.0	0.4	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>4	0.6	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	9.2	9.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	24.1	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		5	2	---
Boron	ppm	ASTM D5185m	0	8	146	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	60	67	118	---
Manganese	ppm	ASTM D5185m	0	2	4	---
Magnesium	ppm	ASTM D5185m	1010	1015	777	---
Calcium	ppm	ASTM D5185m	1070	1130	1540	---
Phosphorus	ppm	ASTM D5185m	1150	1050	749	---
Zinc	ppm	ASTM D5185m	1270	1294	888	---
Sulfur	ppm	ASTM D5185m	2060	3096	2847	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	21.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.1	7.3	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	10.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0125442
Lab Number : 06217479
Unique Number : 11090343
Test Package : FLEET
Received : 21 Jun 2024
Tested : 25 Jun 2024
Diagnosed : 25 Jun 2024 - Sean Felton

GFL Environmental - 947 - WB Horicon HC
 N7296 County Rd V
 Horicon, WI
 US 53032
 Contact: Tim Kieffer
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To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)