



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

(P1059714)

Machine Id

524052

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		GFL0108447	GFL0082371	---
Sample Date		Client Info		10 Apr 2024	25 Jan 2024	---
Machine Age	hrs	Client Info		0	16529	---
Oil Age	hrs	Client Info		0	600	---
Filter Age	hrs	Client Info		0	600	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	10	8	---
Chromium	ppm	ASTM D5185m	>20	<1	0	---
Nickel	ppm	ASTM D5185m	>5	3	<1	---
Titanium	ppm	ASTM D5185m	>2	0	0	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>20	2	2	---
Lead	ppm	ASTM D5185m	>40	<1	0	---
Copper	ppm	ASTM D5185m	>330	1	4	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

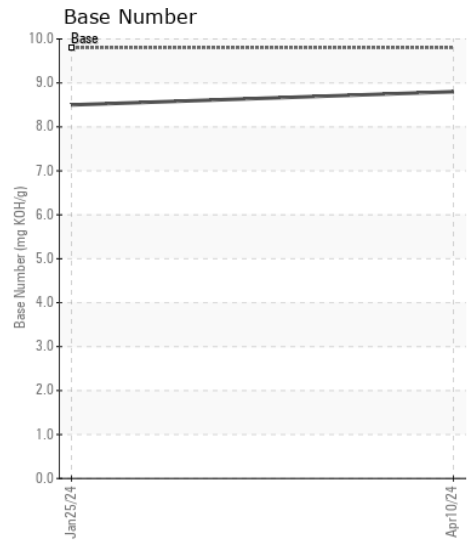
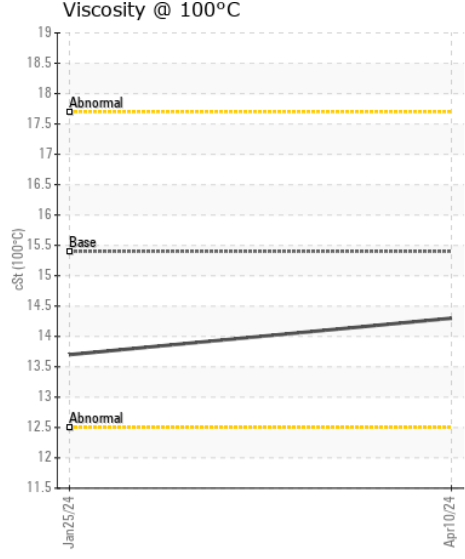
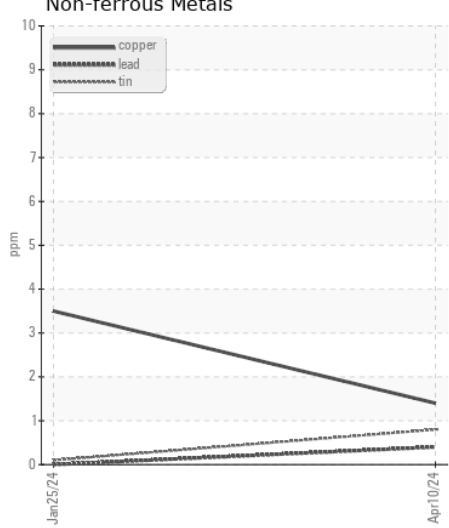
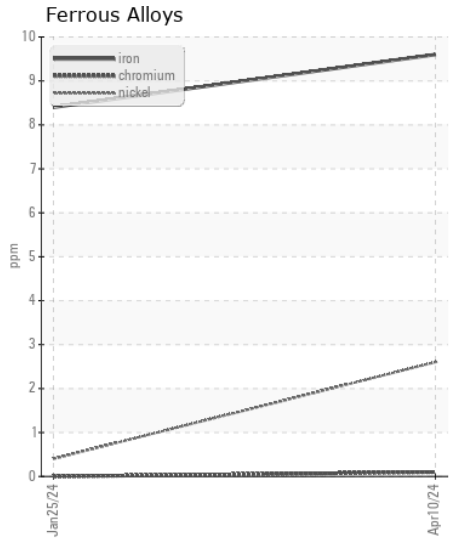
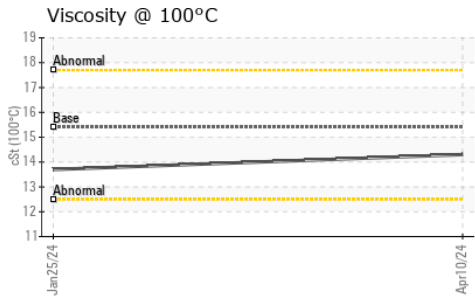
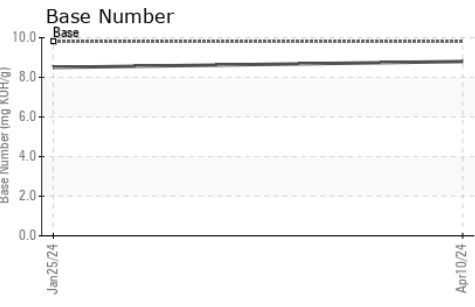
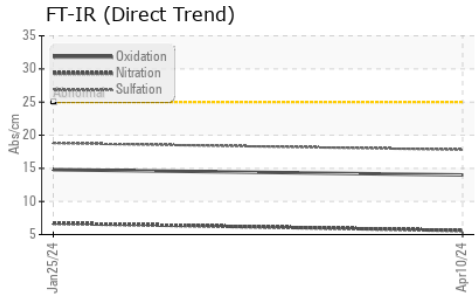
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	4	---
Potassium	ppm	ASTM D5185m	>20	0	<1	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
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	5.6	6.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	18.8	---
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 suitable for further service.

Sodium	ppm	ASTM D5185m		3	2	---
Boron	ppm	ASTM D5185m	0	2	33	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	60	61	64	---
Manganese	ppm	ASTM D5185m	0	<1	0	---
Magnesium	ppm	ASTM D5185m	1010	982	1000	---
Calcium	ppm	ASTM D5185m	1070	1158	1147	---
Phosphorus	ppm	ASTM D5185m	1150	1072	1061	---
Zinc	ppm	ASTM D5185m	1270	1229	1272	---
Sulfur	ppm	ASTM D5185m	2060	3774	3298	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	14.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	8.5	---
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	13.7	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0108447
Lab Number : 06154082
Unique Number : 10989505
Test Package : FLEET
Received : 19 Apr 2024
Tested : 22 Apr 2024
Diagnosed : 22 Apr 2024 - Wes Davis

GFL Environmental - 959F - Clinton HC
 9550 Heritage Rd
 Clinton, IL
 US 61727
 Contact: Larry Siegmann
 lsiegmann@gflenv.com

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)