



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(BD08810)
Machine Id
425173
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (9 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0115061	GFL0106650	---
Sample Date		Client Info		14 May 2024	30 Dec 2023	---
Machine Age	hrs	Client Info		36116	35509	---
Oil Age	hrs	Client Info		607	612	---
Filter Age	hrs	Client Info		607	612	---
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 D5185m	>85	43	13	---
Chromium	ppm	ASTM D5185m	>5	2	0	---
Nickel	ppm	ASTM D5185m	>4	1	0	---
Titanium	ppm	ASTM D5185m	>2	0	0	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>40	7	2	---
Lead	ppm	ASTM D5185m	>10	2	<1	---
Copper	ppm	ASTM D5185m	>100	1	1	---
Tin	ppm	ASTM D5185m	>4	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

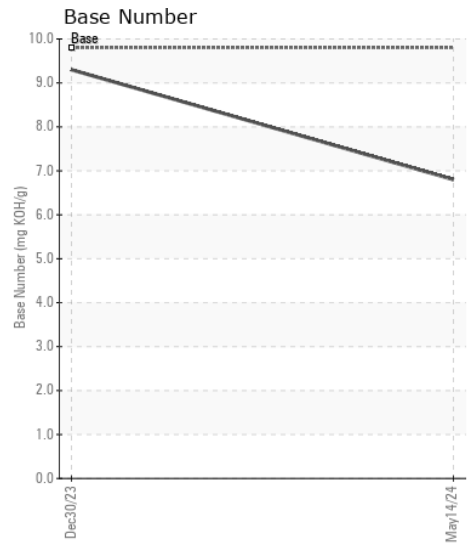
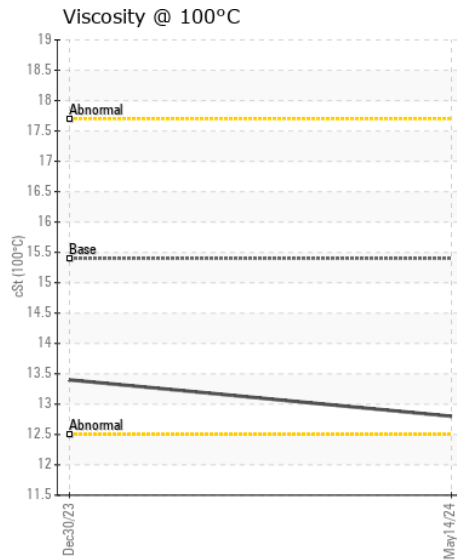
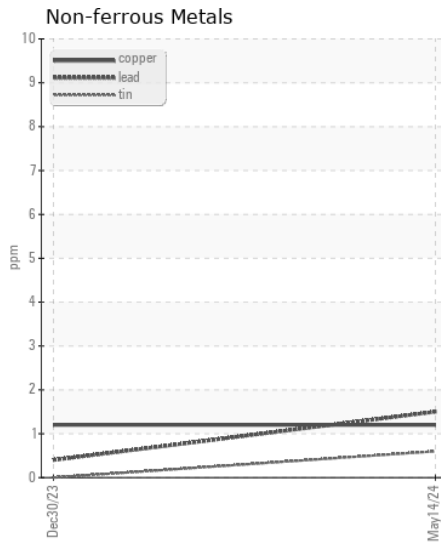
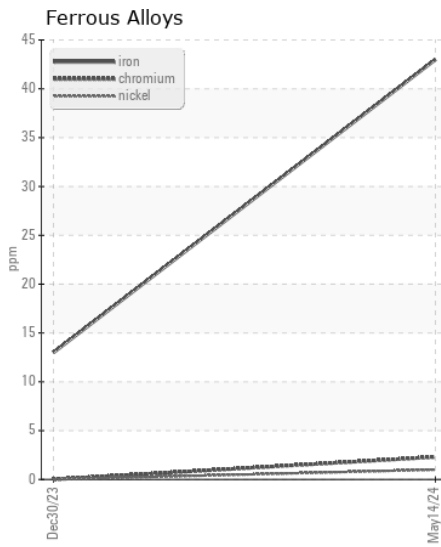
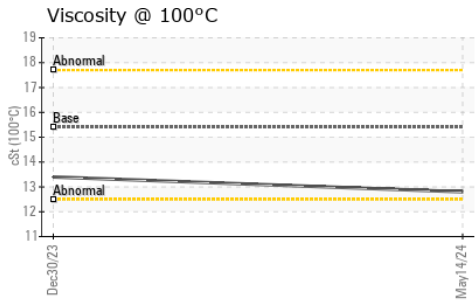
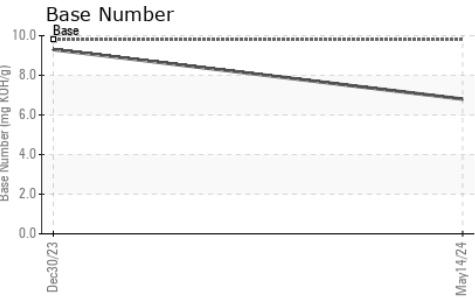
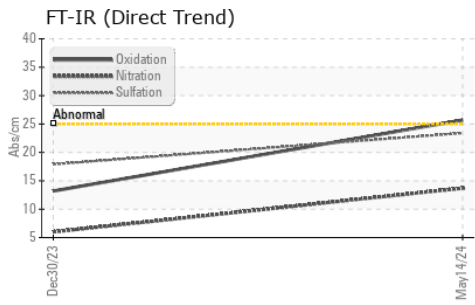
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>15	11	2	---
Potassium	ppm	ASTM D5185m	>20	4	2	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.9	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	13.7	6.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	17.9	---
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		14	<1	---
Boron	ppm	ASTM D5185m	0	2	3	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	60	53	54	---
Manganese	ppm	ASTM D5185m	0	<1	0	---
Magnesium	ppm	ASTM D5185m	1010	889	874	---
Calcium	ppm	ASTM D5185m	1070	924	993	---
Phosphorus	ppm	ASTM D5185m	1150	898	928	---
Zinc	ppm	ASTM D5185m	1270	1148	1221	---
Sulfur	ppm	ASTM D5185m	2060	3089	2827	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.7	13.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.8	9.3	---
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	13.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0115061
Lab Number : 06190234
Unique Number : 11046986
Test Package : FLEET
Received : 24 May 2024
Tested : 29 May 2024
Diagnosed : 29 May 2024 - Sean Felton

GFL Environmental - 405 - Arbor Hills
 7811 Chubb Rd
 NORTHVILLE, MI
 US 48168
 Contact: John Nahal
 jnahal@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)