



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
925036-142557
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (8 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0110801	GFL0110810	GFL0073221
Sample Date		Client Info		28 May 2024	21 Feb 2024	24 Oct 2023
Machine Age	hrs	Client Info		22547	22016	21453
Oil Age	hrs	Client Info		600	600	650
Filter Age	hrs	Client Info		600	600	650
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	23	23	5
Chromium	ppm	ASTM D5185m	>20	4	2	<1
Nickel	ppm	ASTM D5185m	>5	2	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	1
Lead	ppm	ASTM D5185m	>40	6	<1	0
Copper	ppm	ASTM D5185m	>330	9	2	2
Tin	ppm	ASTM D5185m	>15	2	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

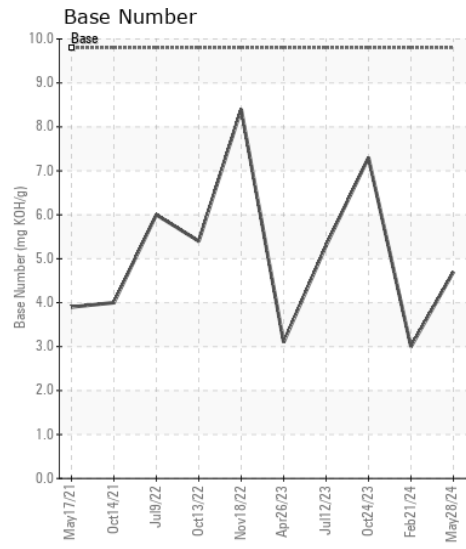
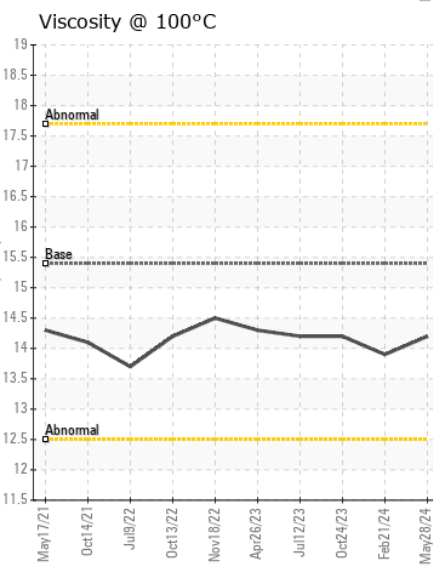
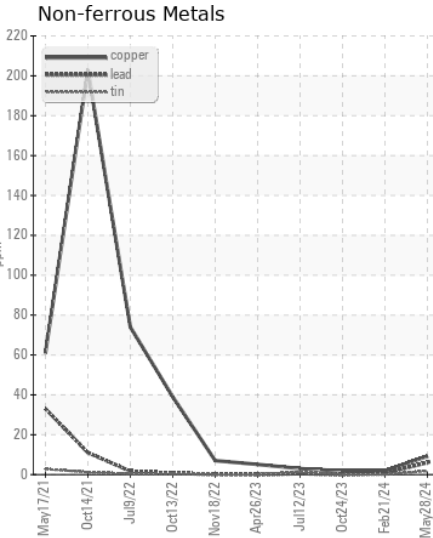
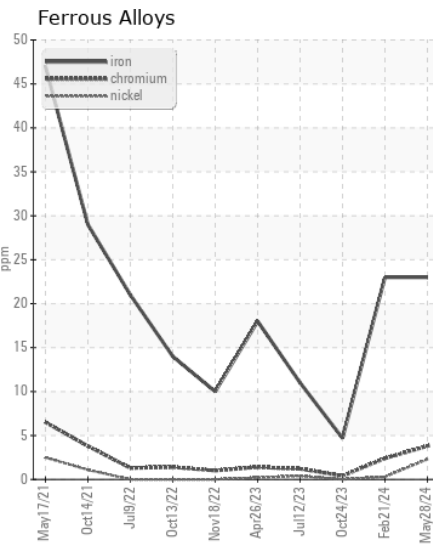
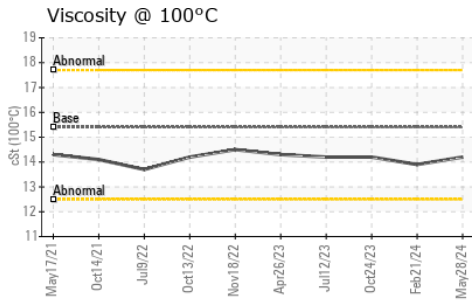
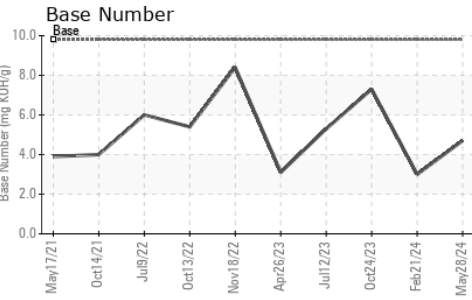
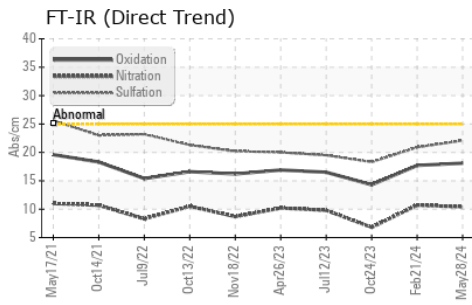
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	15	▲ 26	6
Potassium	ppm	ASTM D5185m	>20	3	0	<1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>4	0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	10.4	10.7	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	20.9	18.3
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	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		8	12	2
Boron	ppm	ASTM D5185m	0	5	9	47
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	67	56	55
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	562	489	502
Calcium	ppm	ASTM D5185m	1070	1667	1516	1423
Phosphorus	ppm	ASTM D5185m	1150	754	629	682
Zinc	ppm	ASTM D5185m	1270	984	839	883
Sulfur	ppm	ASTM D5185m	2060	2589	2026	2220
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	17.7	14.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	4.7	▲ 3.0	7.3
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	13.9	14.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0110801
Lab Number : 06196316
Unique Number : 11058439
Test Package : FLEET
Received : 31 May 2024
Tested : 03 Jun 2024
Diagnosed : 03 Jun 2024 - Don Baldrige

GFL Environmental - 146 - Augusta
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Certificate L2367
 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)