



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
933036
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON SHP 15W40 (5 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0103396	GFL0103420	GFL0074640
Sample Date		Client Info		22 May 2024	21 Feb 2024	10 Nov 2023
Machine Age	hrs	Client Info		2112	1143	1143
Oil Age	hrs	Client Info		0	762	1143
Filter Age	hrs	Client Info		0	762	1143
Oil Changed		Client Info		N/A	Not Changd	Changed
Filter Changed		Client Info		N/A	Not Changd	Changed
Sample Status				NORMAL	MARGINAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	31	26	▲ 60
Chromium	ppm	ASTM D5185m	>5	2	2	2
Nickel	ppm	ASTM D5185m	>4	1	<1	2
Titanium	ppm	ASTM D5185m	>5	<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	4	4	19
Lead	ppm	ASTM D5185m	>40	1	1	2
Copper	ppm	ASTM D5185m	>150	5	5	12
Tin	ppm	ASTM D5185m	>4	1	<1	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

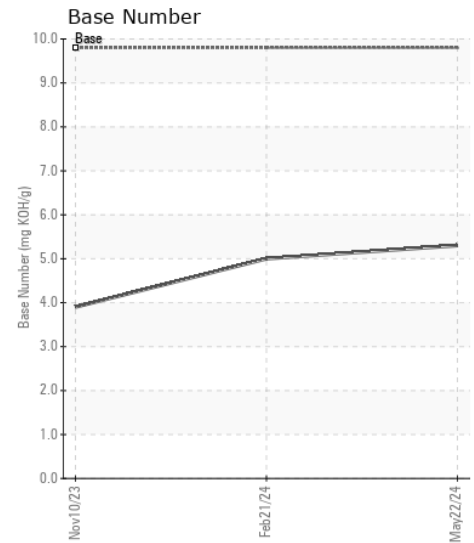
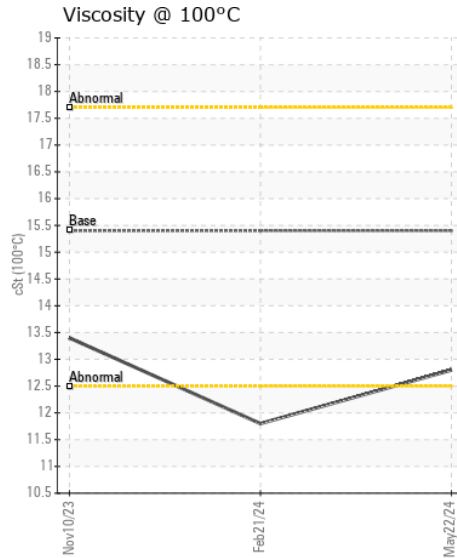
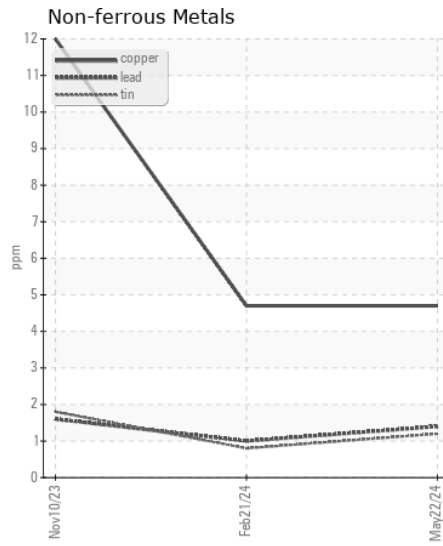
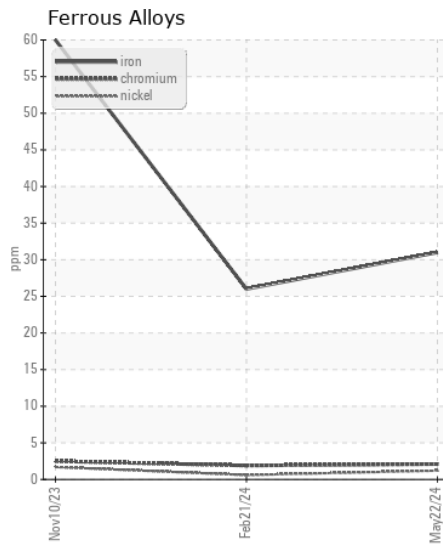
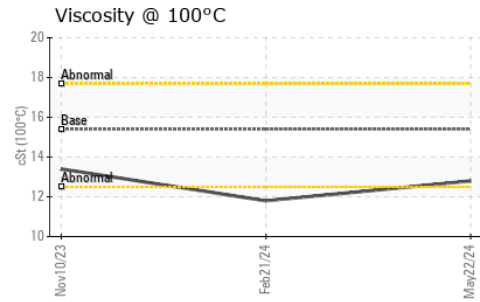
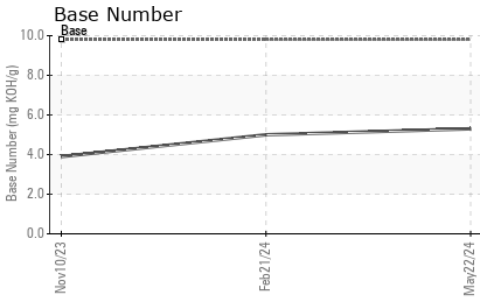
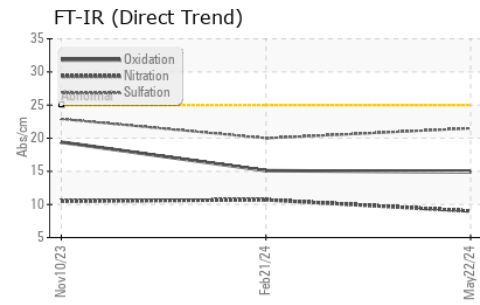
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	5	18
Potassium	ppm	ASTM D5185m	>20	10	8	52
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	9.0	10.7	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	20.0	22.9
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	>0.1	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		5	7	3
Boron	ppm	ASTM D5185m	0	3	3	5
Barium	ppm	ASTM D5185m	0	<1	<1	0
Molybdenum	ppm	ASTM D5185m	60	71	68	63
Manganese	ppm	ASTM D5185m	0	2	2	12
Magnesium	ppm	ASTM D5185m	1010	931	840	911
Calcium	ppm	ASTM D5185m	1070	1153	1067	1042
Phosphorus	ppm	ASTM D5185m	1150	1129	891	891
Zinc	ppm	ASTM D5185m	1270	1317	1133	1181
Sulfur	ppm	ASTM D5185m	2060	3088	2392	2425
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	15.1	19.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.3	5.0	3.9
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	▲ 11.8	13.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0103396
Lab Number : 06187401
Unique Number : 11044153
Test Package : FLEET

Received : 22 May 2024
Tested : 31 May 2024
Diagnosed : 31 May 2024 - Wes Davis

GFL Environmental - 095 - Atlanta West
 2699 Cochran Industrial Blvd
 Douglasville, GA
 US 30127-1332

Contact: Darrell Welch
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F:

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)