



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
4536M
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (6 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0115122	GFL0115189	GFL0052068
Sample Date		Client Info		12 Mar 2024	10 Mar 2024	04 Oct 2022
Machine Age	hrs	Client Info		4144	4144	120446
Oil Age	hrs	Client Info		600	0	120446
Filter Age	hrs	Client Info		600	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	9	8	73
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	4	<1	2
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	3	5	50
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

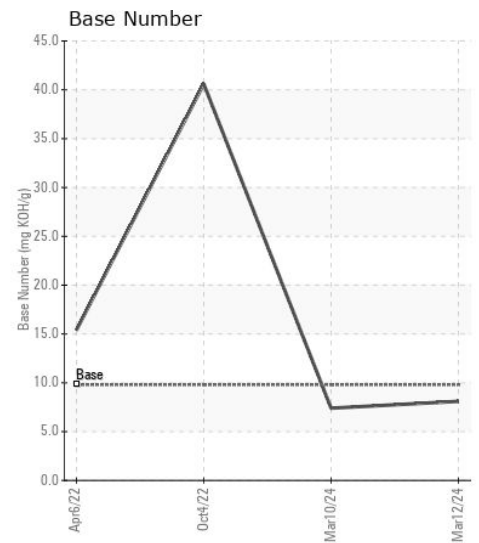
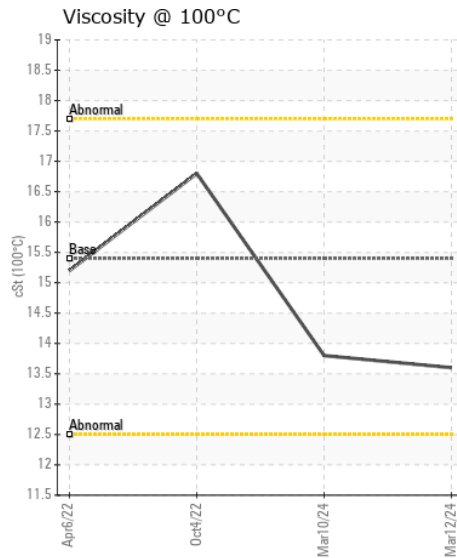
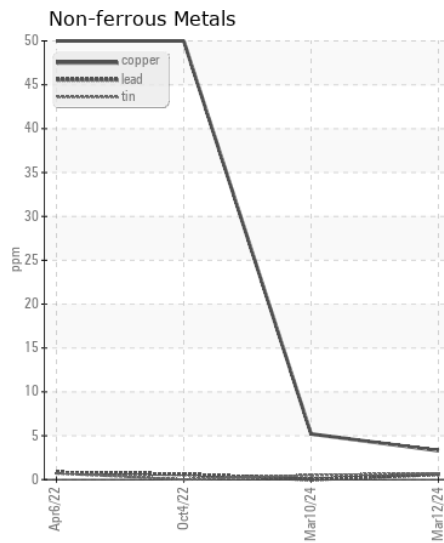
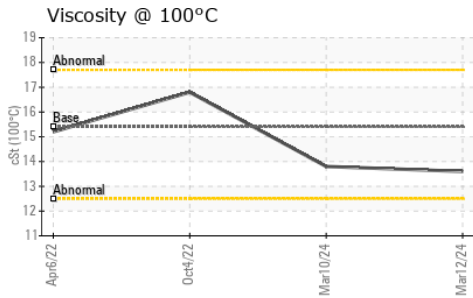
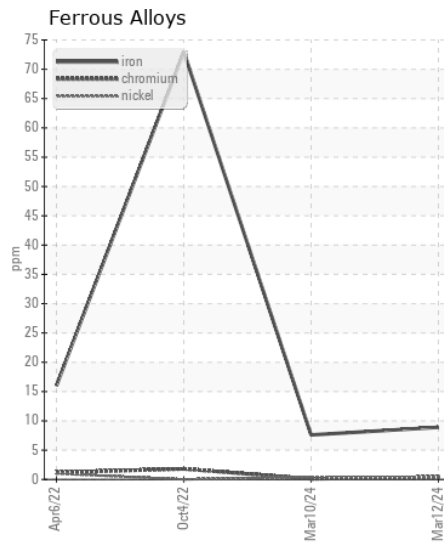
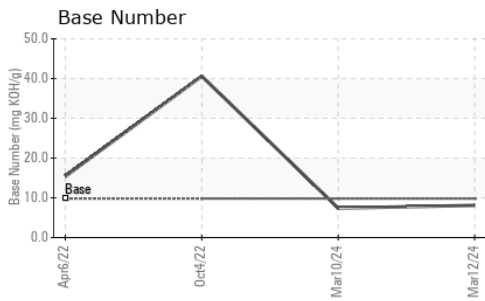
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	4	17
Potassium	ppm	ASTM D5185m	>20	4	0	▲ 70
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	▲ 0.10
Soot %	%	*ASTM D7844	>6	0.2	0.5	0.9
Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.7	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	19.3	16.7
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		5	2	▲ 970
Boron	ppm	ASTM D5185m	0	3	0	104
Barium	ppm	ASTM D5185m	0	2	0	<1
Molybdenum	ppm	ASTM D5185m	60	88	58	68
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1397	914	480
Calcium	ppm	ASTM D5185m	1070	1668	996	591
Phosphorus	ppm	ASTM D5185m	1150	1465	1015	583
Zinc	ppm	ASTM D5185m	1270	1836	1206	677
Sulfur	ppm	ASTM D5185m	2060	5023	3235	1885
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	15.3	15.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	7.4	40.6
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.8	16.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0115122
Lab Number : 06124730
Unique Number : 10938881
Test Package : FLEET

Received : 21 Mar 2024
Tested : 22 Mar 2024
Diagnosed : 25 Mar 2024 - Sean Felton

GFL Environmental - 405 - Arbor Hills
 7400 Napier Rd
 NORTHVILLE, MI
 US 48168

Contact: Anthony Hopkins
 ahopkins@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)

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F: