



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
426087-402375

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		GFL0106775	GFL0084742	GFL0073697
Sample Date		Client Info		28 Feb 2024	19 Jun 2023	27 Feb 2023
Machine Age	hrs	Client Info		4624	255233	3011
Oil Age	hrs	Client Info		600	0	0
Filter Age	hrs	Client Info		600	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changed	Changed
Sample Status				NORMAL	SEVERE	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	5	12	25
Chromium	ppm	ASTM D5185m	>4	<1	1	3
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	2	3
Lead	ppm	ASTM D5185m	>45	27	▲ 153	▲ 1073
Copper	ppm	ASTM D5185m	>85	26	29	▲ 120
Tin	ppm	ASTM D5185m	>4	3	4	▲ 10
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

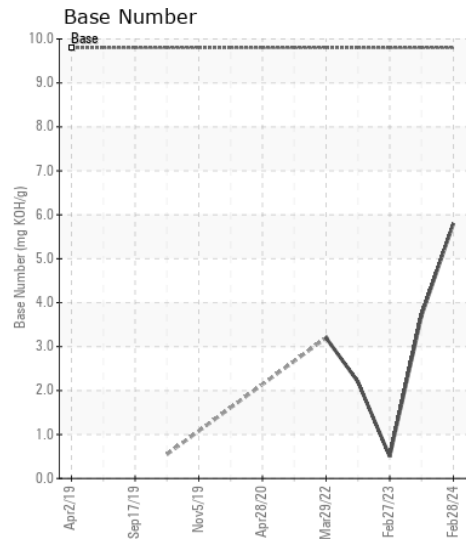
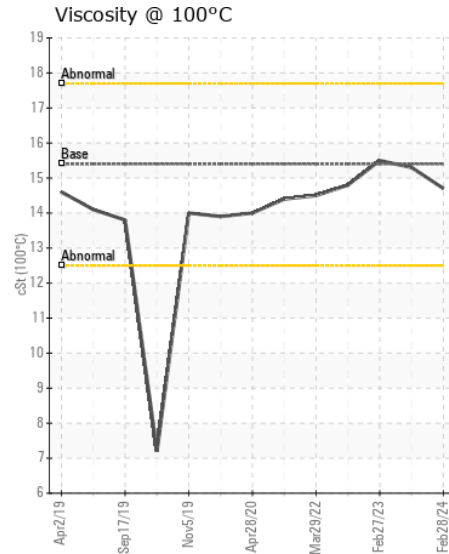
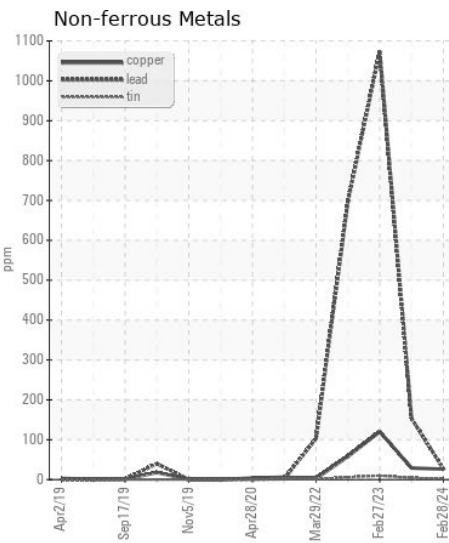
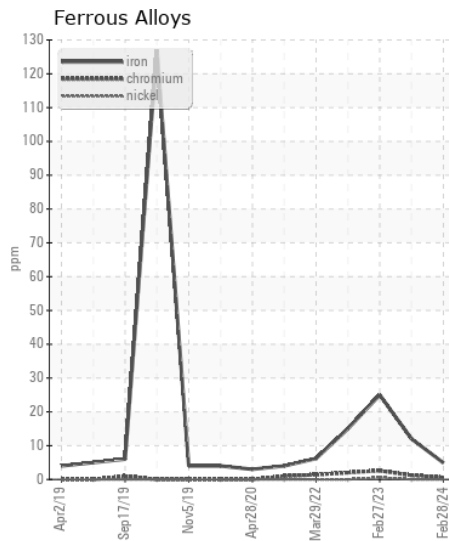
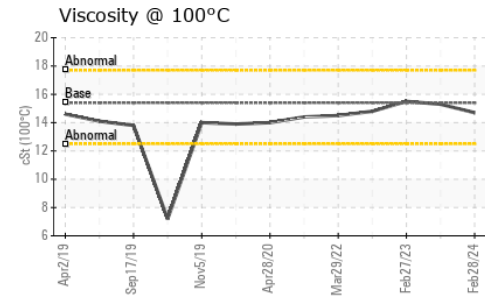
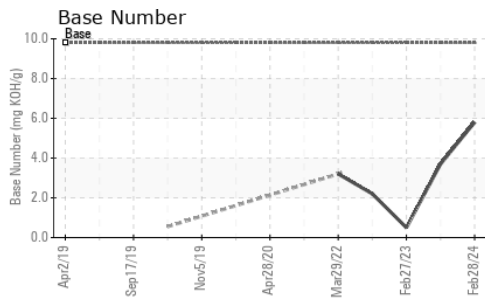
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	4	6	7
Potassium	ppm	ASTM D5185m	>20	5	35	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.6	13.9	19.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	26.0	35.2
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	33	6
Boron	ppm	ASTM D5185m	0	15	11	15
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	47	56	63
Manganese	ppm	ASTM D5185m	0	<1	<1	2
Magnesium	ppm	ASTM D5185m	1010	541	641	744
Calcium	ppm	ASTM D5185m	1070	1455	1738	1999
Phosphorus	ppm	ASTM D5185m	1150	701	796	967
Zinc	ppm	ASTM D5185m	1270	909	1037	1282
Sulfur	ppm	ASTM D5185m	2060	2070	2616	2543
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0	28.2	48.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.8	▲ 3.7	▲ 0.5
Visc @ 100°C	cSt	ASTM D445	15.4	14.7	15.3	15.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0106775
Lab Number : 06105890
Unique Number : 10909387
Test Package : FLEET

GFL Environmental - 856 - Houston South
 8515 Highway 6 South
 Houston, TX
 US 77083
 Contact: Apolinar Zacarias
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 T:
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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)