



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
749005-310061

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		GFL0106823	GFL0084580	GFL0092034
Sample Date		Client Info		21 Feb 2024	21 Dec 2023	02 Dec 2023
Machine Age	hrs	Client Info		14444	14082	625869
Oil Age	hrs	Client Info		0	625869	625869
Filter Age	hrs	Client Info		0	625869	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	8	20	11
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	3	1
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	<1	2	1
Tin	ppm	ASTM D5185m	>15	<1	<1	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

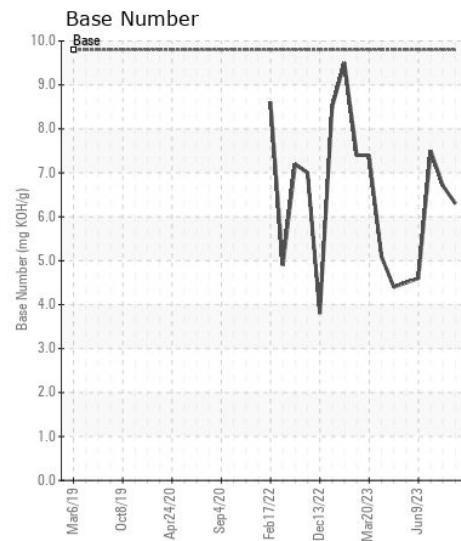
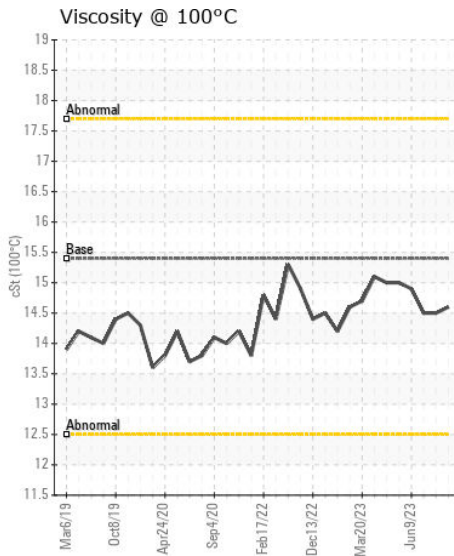
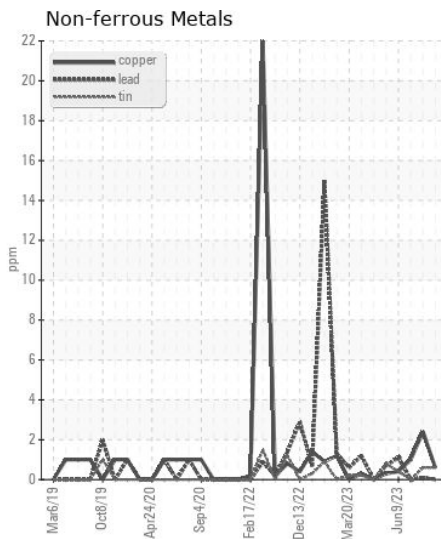
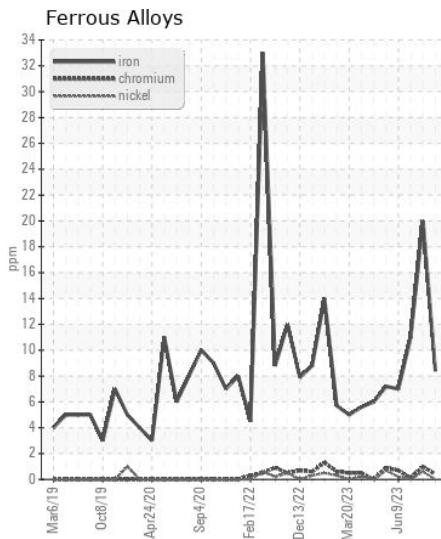
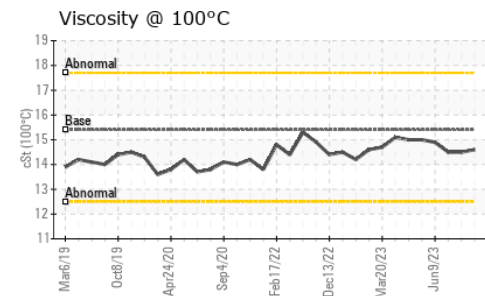
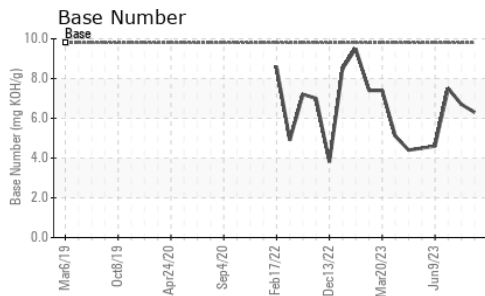
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	18	11
Potassium	ppm	ASTM D5185m	>20	7	29	21
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
Soot %	%	*ASTM D7844	>3	0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	9.5	9.8	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	19.4	19.3
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		63	115	76
Boron	ppm	ASTM D5185m	0	20	11	15
Barium	ppm	ASTM D5185m	0	0	13	4
Molybdenum	ppm	ASTM D5185m	60	52	58	52
Manganese	ppm	ASTM D5185m	0	<1	2	<1
Magnesium	ppm	ASTM D5185m	1010	497	555	523
Calcium	ppm	ASTM D5185m	1070	1490	1454	1385
Phosphorus	ppm	ASTM D5185m	1150	676	773	689
Zinc	ppm	ASTM D5185m	1270	760	908	857
Sulfur	ppm	ASTM D5185m	2060	2222	2457	2529
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	17.3	16.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.3	6.7	7.5
Visc @ 100°C	cSt	ASTM D445	15.4	14.6	14.5	14.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : GFL0106823

Lab Number : 06098274

Unique Number : 10896504

Test Package : FLEET

Received : 23 Feb 2024

Tested : 26 Feb 2024

Diagnosed : 26 Feb 2024 - Sean Felton

GFL Environmental - 856 - Houston South

8515 Highway 6 South

Houston, TX

US 77083

Contact: Apolinar Zacarias

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T:

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)