



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

(YA134225)

Machine Id

3748C

Component

Natural Gas Engine

Fluid

PETRO CANADA DURON GEO LD 15W40 (5 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0125789	GFL0112941	GFL0079626
Sample Date		Client Info		02 Jul 2024	01 Apr 2024	22 Feb 2024
Machine Age	hrs	Client Info		7667	7667	7667
Oil Age	hrs	Client Info		480	198	576
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	19	14	22
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	3	2	3
Lead	ppm	ASTM D5185m	>30	<1	<1	0
Copper	ppm	ASTM D5185m	>35	<1	0	<1
Tin	ppm	ASTM D5185m	>4	<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.

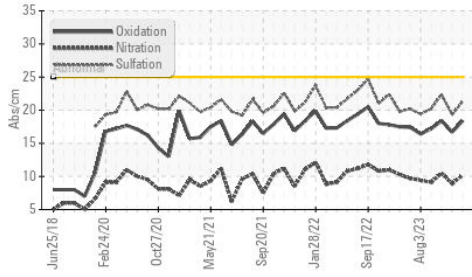
Silicon	ppm	ASTM D5185m	>+100	4	5	4
Potassium	ppm	ASTM D5185m	>20	3	<1	3
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.2	8.9	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	19.3	22.4
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

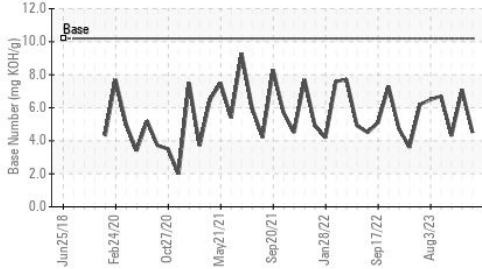
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		4	6	5
Boron	ppm	ASTM D5185m	50	8	22	10
Barium	ppm	ASTM D5185m	5	<1	0	8
Molybdenum	ppm	ASTM D5185m	50	51	47	49
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	560	512	561	495
Calcium	ppm	ASTM D5185m	1510	1493	1558	1411
Phosphorus	ppm	ASTM D5185m	780	664	772	727
Zinc	ppm	ASTM D5185m	870	910	930	901
Sulfur	ppm	ASTM D5185m	2040	2049	2747	2456
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	16.7	18.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	4.5	7.1	4.3
Visc @ 100°C	cSt	ASTM D445	15.1	14.8	14.7	14.7

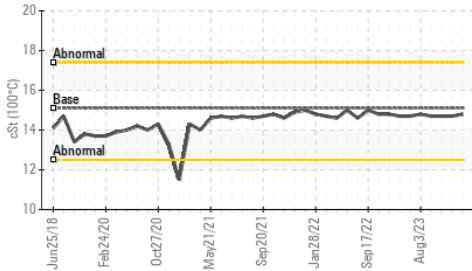
FT-IR (Direct Trend)



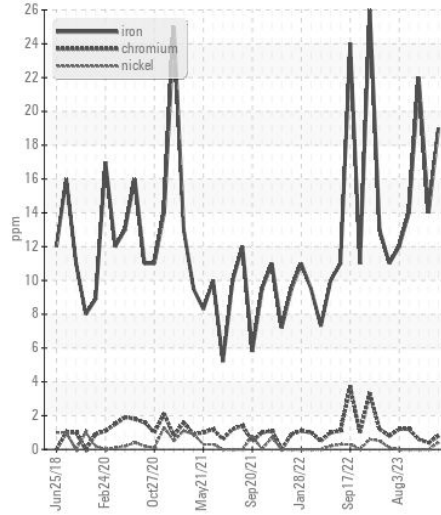
Base Number



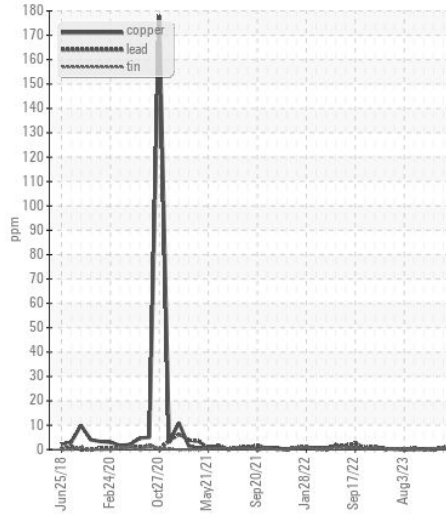
Viscosity @ 100°C



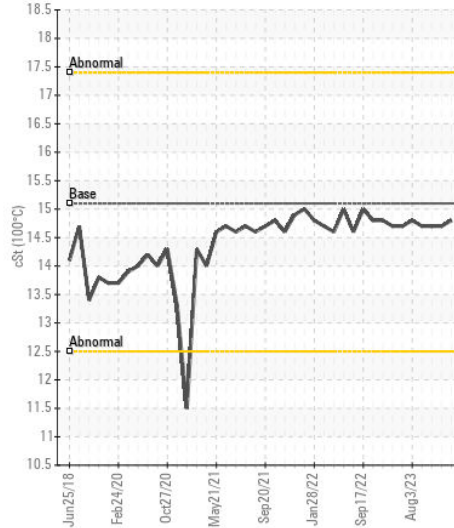
Ferrous Alloys



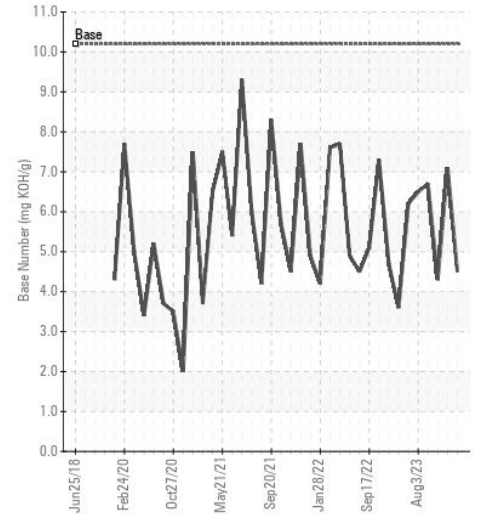
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

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

Sample No. : GFL0125789

Lab Number : 06225802

Unique Number : 11109295

Test Package : FLEET

Received : 02 Jul 2024

Tested : 03 Jul 2024

Diagnosed : 03 Jul 2024 - Wes Davis

GFL Environmental - 017 - Durham

148 Stone Park Court

Durham, NC

US 27703

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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)