



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(YA113968)
Machine Id
3443C
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (28 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0079620	GFL0112894	GFL0112935
Sample Date		Client Info		18 Jun 2024	12 Apr 2024	21 Mar 2024
Machine Age	hrs	Client Info		14818	14818	14818
Oil Age	hrs	Client Info		440	144	346
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	11	5	4
Chromium	ppm	ASTM D5185m	>4	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	5	2	2
Lead	ppm	ASTM D5185m	>30	<1	0	<1
Copper	ppm	ASTM D5185m	>35	1	0	<1
Tin	ppm	ASTM D5185m	>4	<1	0	<1
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.

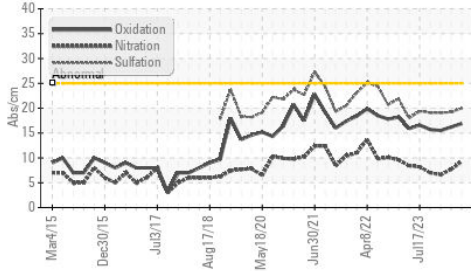
Silicon	ppm	ASTM D5185m	>+100	6	4	8
Potassium	ppm	ASTM D5185m	>20	8	1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	9.3	7.7	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	19.2	19.1
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	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

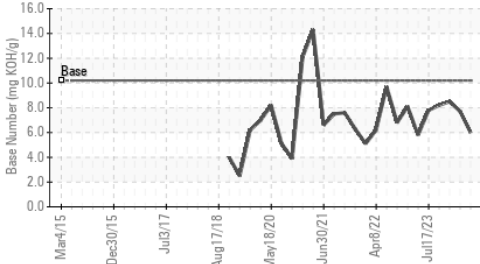
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		7	4	2
Boron	ppm	ASTM D5185m	50	13	29	48
Barium	ppm	ASTM D5185m	5	<1	0	0
Molybdenum	ppm	ASTM D5185m	50	55	50	50
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	560	539	629	569
Calcium	ppm	ASTM D5185m	1510	1531	1591	1546
Phosphorus	ppm	ASTM D5185m	780	646	840	776
Zinc	ppm	ASTM D5185m	870	923	1000	957
Sulfur	ppm	ASTM D5185m	2040	2197	2930	2456
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	16.2	15.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.0	7.7	8.5
Visc @ 100°C	cSt	ASTM D445	15.1	15.0	14.6	14.7

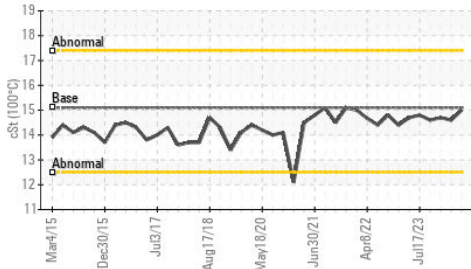
FT-IR (Direct Trend)



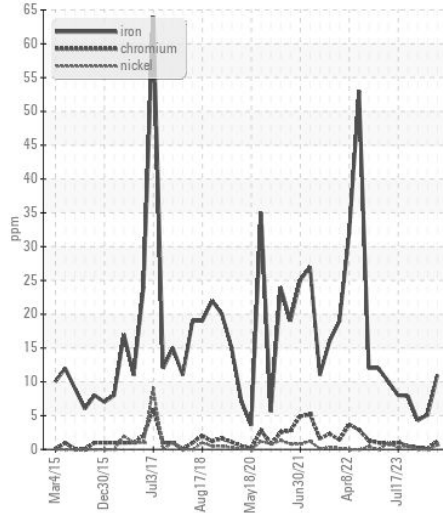
Base Number



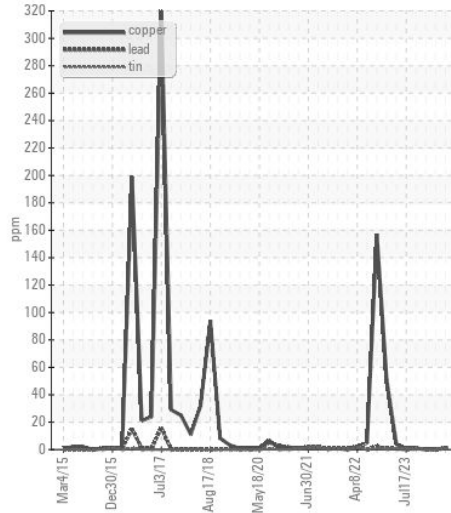
Viscosity @ 100°C



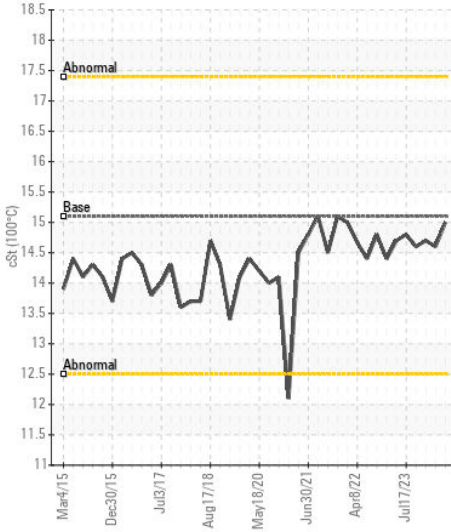
Ferrous Alloys



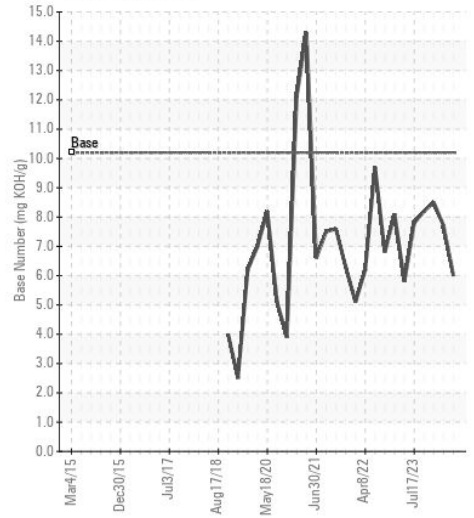
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0079620
Lab Number : 06213136
Unique Number : 11086000
Test Package : FLEET

GFL Environmental - 017 - Durham
 148 Stone Park Court
 Durham, NC
 US 27703

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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