



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(EHR510)
Machine Id
2637C
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (8 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0111541	GFL0083095	GFL0083109
Sample Date		Client Info		12 Mar 2024	27 Jul 2023	18 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	▲ 52	8	8
Chromium	ppm	ASTM D5185m	>4	▲ 6	<1	1
Nickel	ppm	ASTM D5185m	>2	2	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	8	1	2
Lead	ppm	ASTM D5185m	>30	3	<1	0
Copper	ppm	ASTM D5185m	>35	5	1	<1
Tin	ppm	ASTM D5185m	>4	2	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	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.

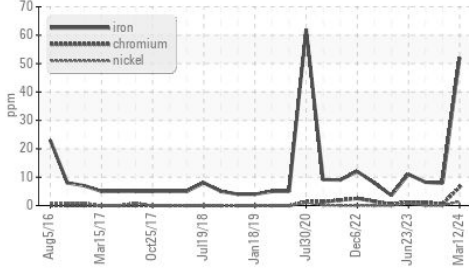
Silicon	ppm	ASTM D5185m	>+100	13	5	4
Potassium	ppm	ASTM D5185m	>20	3	1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.4	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	12.5	9.4	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.3	19.1	18.9
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	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

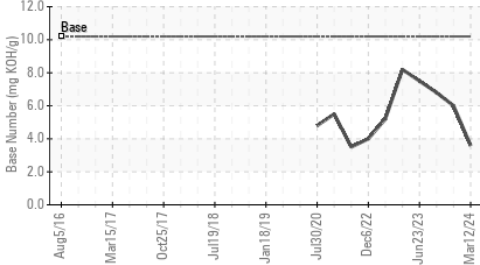
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		4	8	6
Boron	ppm	ASTM D5185m	50	4	33	32
Barium	ppm	ASTM D5185m	5	2	0	0
Molybdenum	ppm	ASTM D5185m	50	62	56	58
Manganese	ppm	ASTM D5185m	0	4	<1	<1
Magnesium	ppm	ASTM D5185m	560	672	576	635
Calcium	ppm	ASTM D5185m	1510	1720	1621	1629
Phosphorus	ppm	ASTM D5185m	780	858	761	822
Zinc	ppm	ASTM D5185m	870	1121	963	1013
Sulfur	ppm	ASTM D5185m	2040	2833	2890	3062
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.1	16.3	15.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	3.6	6.0	6.8
Visc @ 100°C	cSt	ASTM D445	15.1	13.9	14.0	13.8

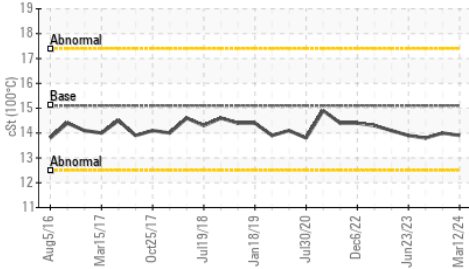
▲ Ferrous Alloys



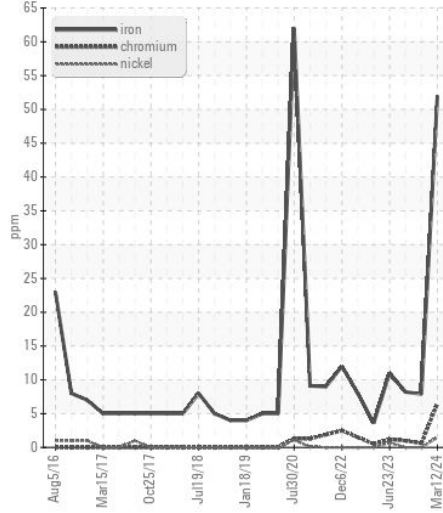
Base Number



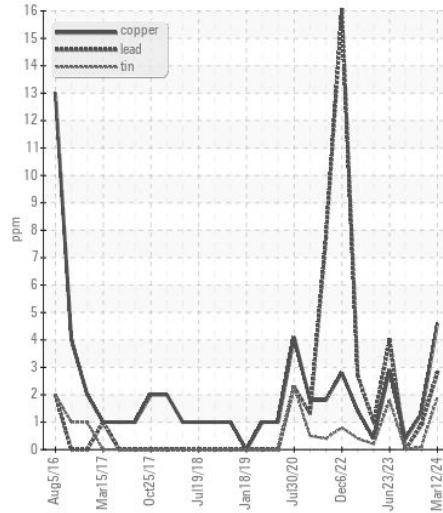
Viscosity @ 100°C



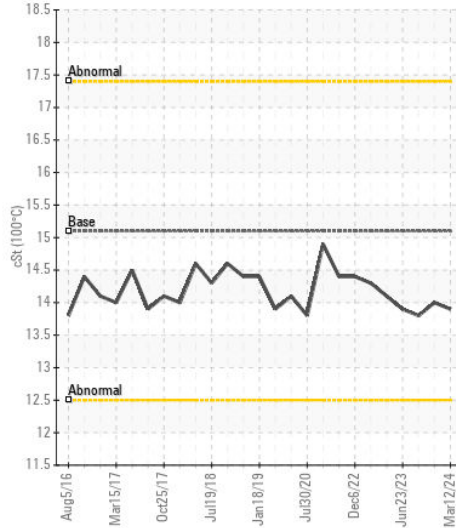
▲ Ferrous Alloys



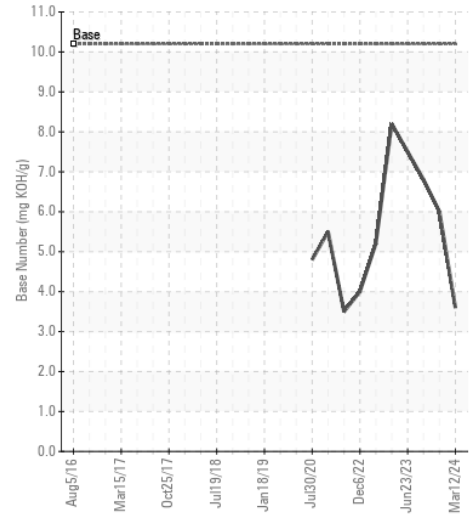
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0111541 **Received** : 21 Mar 2024
Lab Number : 06124774 **Tested** : 22 Mar 2024
Unique Number : 10938925 **Diagnosed** : 24 Mar 2024 - Don Baldrige
Test Package : FLEET

GFL Environmental - 074 - Douglas - Transwaste
 1219 Landfill Road
 Douglas, GA
 US 31533
 Contact: CURTIS JACOBS
 CURTIS.JACOBS@GFLENV.COM
 T: (912)384-6001
 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)