



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

(P8963D)

Machine Id

945008-260260

Component

Natural Gas Engine

Fluid

PETRO CANADA DURON GEO LD 15W40 (7 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0114576	GFL0114562	GFL0081090
Sample Date		Client Info		22 May 2024	14 Mar 2024	21 Feb 2024
Machine Age	hrs	Client Info		4762	4323	17066
Oil Age	hrs	Client Info		450	1200	941
Filter Age	hrs	Client Info		450	1200	941
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	20	▲ 79	▲ 69
Chromium	ppm	ASTM D5185m	>4	2	4	3
Nickel	ppm	ASTM D5185m	>2	<1	3	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	4	9	6
Lead	ppm	ASTM D5185m	>30	2	4	2
Copper	ppm	ASTM D5185m	>35	1	3	1
Tin	ppm	ASTM D5185m	>4	2	2	2
Vanadium	ppm	ASTM D5185m		<1	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.

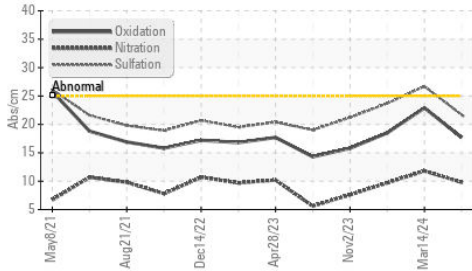
Silicon	ppm	ASTM D5185m	>+100	7	20	12
Potassium	ppm	ASTM D5185m	>20	3	8	2
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.3	0.1	0.8
Nitration	Abs/cm	*ASTM D7624	>20	9.8	11.8	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	26.7	23.7
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	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

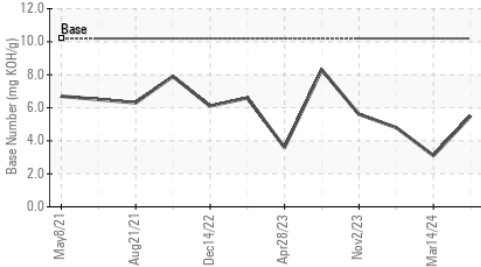
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		6	11	11
Boron	ppm	ASTM D5185m	50	14	8	5
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	56	68	61
Manganese	ppm	ASTM D5185m	0	<1	1	1
Magnesium	ppm	ASTM D5185m	560	513	600	536
Calcium	ppm	ASTM D5185m	1510	1746	1785	1699
Phosphorus	ppm	ASTM D5185m	780	683	850	758
Zinc	ppm	ASTM D5185m	870	1031	1084	946
Sulfur	ppm	ASTM D5185m	2040	2668	2633	2265
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	22.9	18.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	5.5	▲ 3.1	4.8
Visc @ 100°C	cSt	ASTM D445	15.1	14.9	15.1	14.8

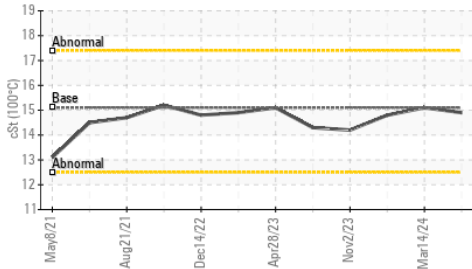
FT-IR (Direct Trend)



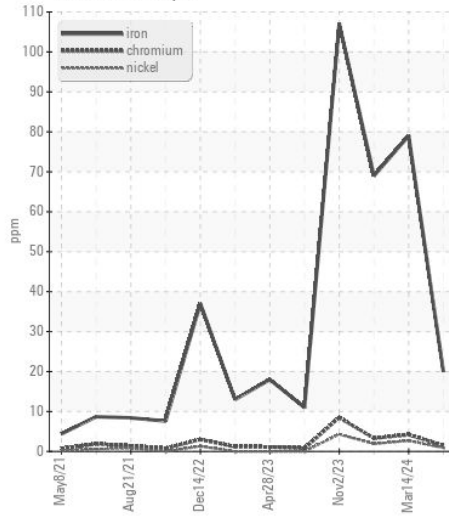
Base Number



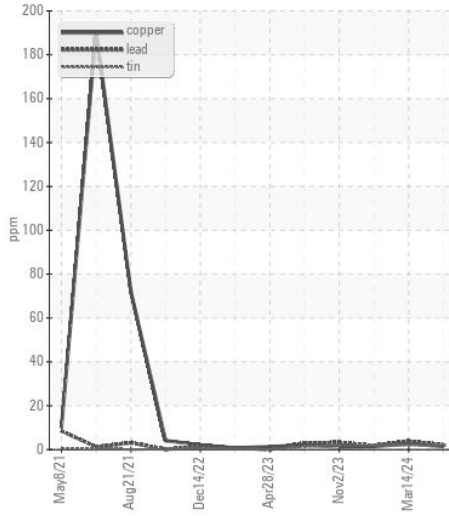
Viscosity @ 100°C



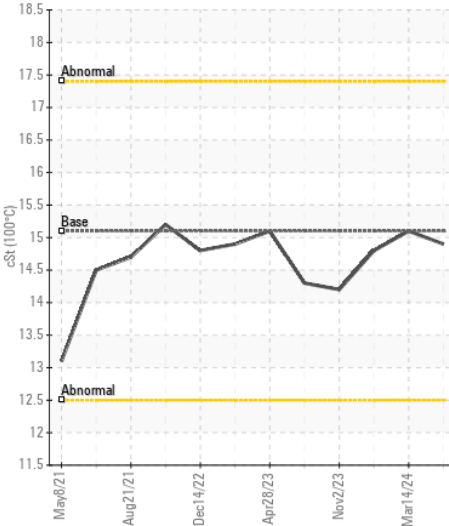
Ferrous Alloys



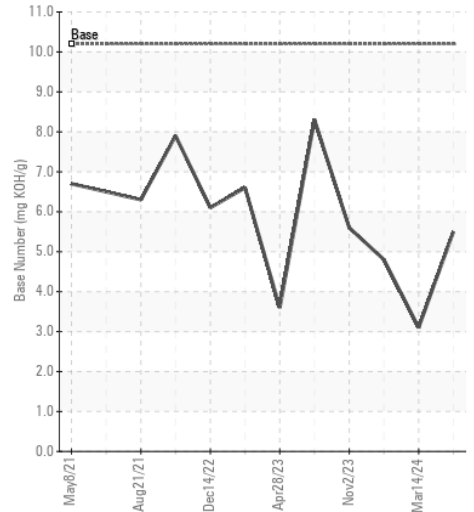
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0114576
Lab Number : 06190053
Unique Number : 11046805
Test Package : FLEET

Received : 23 May 2024
Tested : 25 May 2024
Diagnosed : 25 May 2024 - Wes Davis

GFL Environmental - 884 - Lake County - Tavares
 321 Southridge Industrial Way
 Tavares, FL
 US 32778
 Contact: RON FERAGOTTI

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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F: