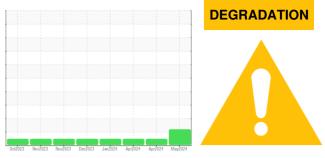


# **OIL ANALYSIS REPORT**

Sample Rating Trend





834055 Component Natural Gas Engine Fluid PETRO CANADA DURON GEO LD 15W40 (--- GAL)

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118791	GFL0118846	GFL0114133
Sample Date		Client Info		08 May 2024	30 Apr 2024	01 Apr 2024
Machine Age	hrs	Client Info		1170	1122	992
Oil Age	hrs	Client Info		1170	1122	992
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	61	60	60
Chromium	ppm	ASTM D5185m	>4	2	2	1
Nickel	ppm	ASTM D5185m	>2	1	3	2
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>9	5	5	5
Lead	ppm	ASTM D5185m	>30	2	4	2
Copper	ppm	ASTM D5185m	>35	20	16	18
Tin	ppm	ASTM D5185m	>4	3	4	2
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	2	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	8	4	17
Barium	ppm	ASTM D5185m	5	<1	2	5
Molybdenum	ppm	ASTM D5185m	50	57	53	58
Manganese	ppm	ASTM D5185m	0	13	13	13
Magnesium	ppm	ASTM D5185m	560	802	816	737
Calcium	ppm	ASTM D5185m	1510	1405	1541	1412
Phosphorus	ppm	ASTM D5185m	780	766	827	782
Zinc	ppm	ASTM D5185m	870	981	1040	984
Sulfur	ppm	ASTM D5185m	2040	2596	2876	2529
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	24	21	24
Sodium	ppm	ASTM D5185m		7	7	6
Potassium	ppm	ASTM D5185m	>20	2	4	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	13.2	13.4	12.4
Sulfation	Abs/.1mm	*ASTM D7415		25.1	24.8	24.0
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.9	22.5	21.1
Onidation	/ 10/0/.11111111					

### DIAGNOSIS

Recommendation

The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

Machine Id

### Wear

All component wear rates are normal.

#### Contamination

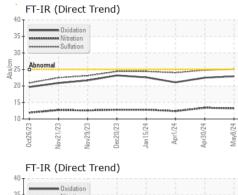
There is no indication of any contamination in the oil.

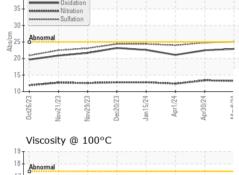
#### Fluid Condition

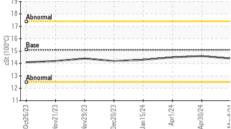
The BN level is low.

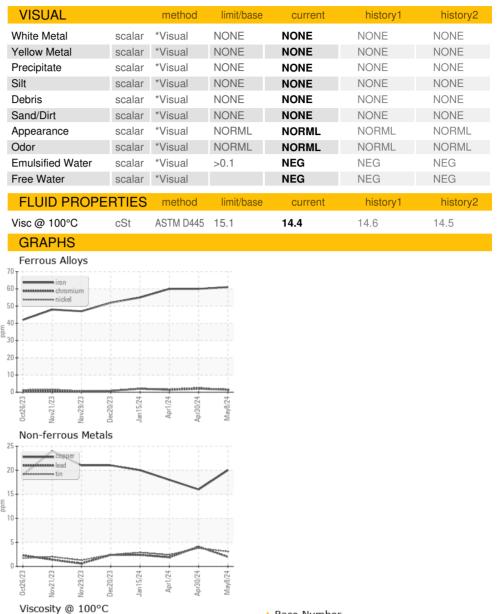


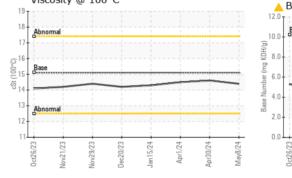
# **OIL ANALYSIS REPORT**

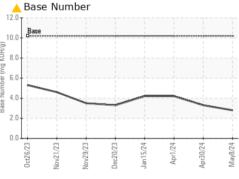












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 837 - Harrison TS Sample No. : GFL0118791 Received : 13 May 2024 22820 S State Route 291 Lab Number : 06176743 Tested : 14 May 2024 Harrisonville, MO Unique Number : 11022796 Diagnosed : 14 May 2024 - Angela Borella US 64701 Test Package : FLEET Contact: SARA PATRICK Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. spatrick@gflenv.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Report Id: GFL837 [WUSCAR] 06176743 (Generated: 05/14/2024 17:06:17) Rev: 1

Submitted By: JEREMY BROWN

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