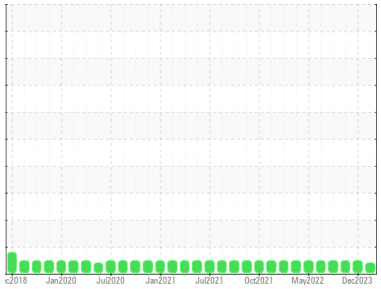
OIL ANALYSIS REPORT

Sample Rating Trend



VIS DEBRIS

Area
(P662031)
Machine Id
10892C
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (11 GAL)

DIAGNOSIS

Recommendation
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0096913**	GFL0069746	GFL0084243
Sample Date		Client Info		**07 Feb 2024**	28 Dec 2023	21 Jun 2023
Machine Age	hrs	Client Info		**5580**	5270	4004
Oil Age	hrs	Client Info		**5580**	5270	4004
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**43**	11	20
Chromium	ppm	ASTM D5185m	>4	**4**	<1	2
Nickel	ppm	ASTM D5185m	>2	**2**	<1	1
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>9	**4**	2	4
Lead	ppm	ASTM D5185m	>30	**7**	3	<1
Copper	ppm	ASTM D5185m	>35	**2**	<1	1
Tin	ppm	ASTM D5185m	>4	**1**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	**10**	6	28
Barium	ppm	ASTM D5185m	5	**2**	0	0
Molybdenum	ppm	ASTM D5185m	50	**73**	63	88
Manganese	ppm	ASTM D5185m	0	**2**	<1	<1
Magnesium	ppm	ASTM D5185m	560	**749**	678	859
Calcium	ppm	ASTM D5185m	1510	**1750**	1668	2135
Phosphorus	ppm	ASTM D5185m	780	**922**	801	1173
Zinc	ppm	ASTM D5185m	870	**1206**	1096	1407
Sulfur	ppm	ASTM D5185m	2040	**2595**	2561	4096

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	**43**	8	11
Sodium	ppm	ASTM D5185m		**8**	7	4
Potassium	ppm	ASTM D5185m	>20	**4**	0	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0.1**	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**13.6**	11.3	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	**25.1**	24.3	20.1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**20.3**	19.4	16.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	**6.3**	3.4	6.8

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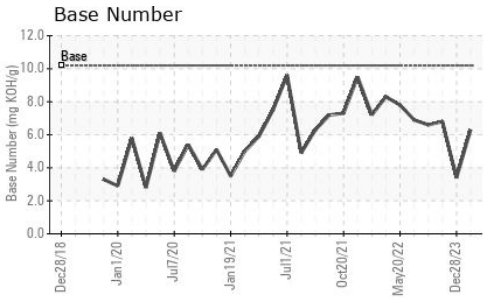
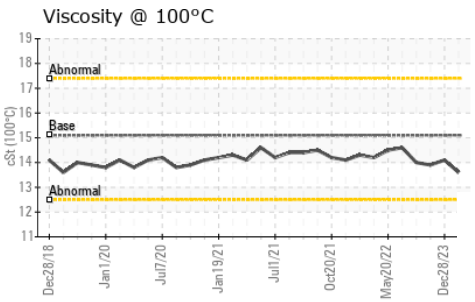
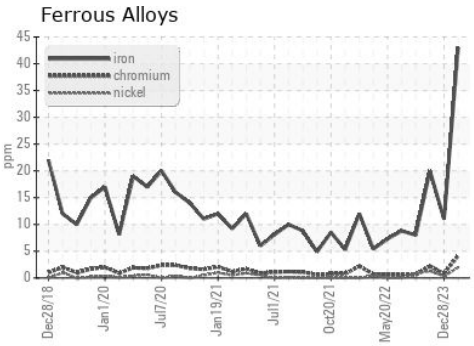


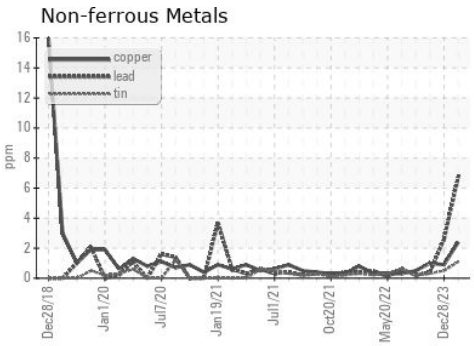


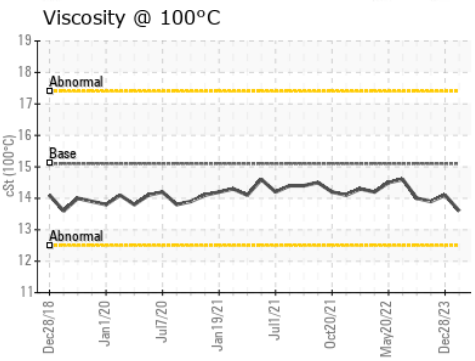
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	▲ **MODER**	NONE	NONE
Sand/Dirt	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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

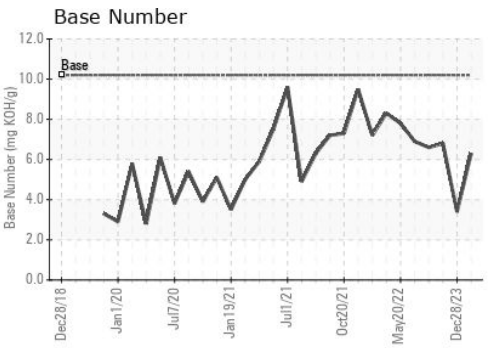
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	**13.6**	14.1	13.9

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0096913
Lab Number : 06085279
Unique Number : 10872724
Test Package : FLEET

Received : 09 Feb 2024
Tested : 12 Feb 2024
Diagnosed : 12 Feb 2024 - Don Baldridge

GFL Environmental - 031 - Greenville/Spartanburg
1635 Antioch Church Rd
Piedmont, SC
US 29673
Contact: TECHNICIAN ACCOUNT
catherine.anastasio@wearcheck.com
T:
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)