



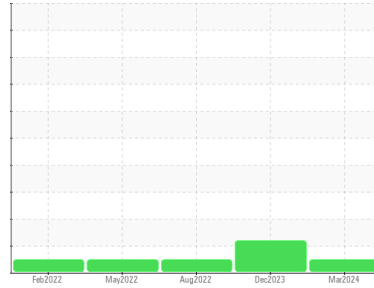
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
948002-172503
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (8 GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0110803	GFL0088456	GFL0040940
Sample Date	Client Info	12 Mar 2024	04 Dec 2023	25 Aug 2022
Machine Age	hrs	14721	14166	12845
Oil Age	hrs	600	600	650
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		NORMAL	ABNORMAL	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	20	34	15
Chromium	ppm ASTM D5185m >5	1	2	1
Nickel	ppm ASTM D5185m >4	<1	<1	<1
Titanium	ppm ASTM D5185m >5	<1	4	<1
Silver	ppm ASTM D5185m >3	0	0	<1
Aluminum	ppm ASTM D5185m >25	6	10	7
Lead	ppm ASTM D5185m >40	2	<1	2
Copper	ppm ASTM D5185m >150	2	6	<1
Tin	ppm ASTM D5185m >4	1	<1	<1
Vanadium	ppm ASTM D5185m	<1	0	<1
Cadmium	ppm ASTM D5185m	0	0	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 50	6	3	23
Barium	ppm ASTM D5185m 5	2	0	0
Molybdenum	ppm ASTM D5185m 50	62	60	90
Manganese	ppm ASTM D5185m 0	<1	<1	<1
Magnesium	ppm ASTM D5185m 560	532	935	610
Calcium	ppm ASTM D5185m 1510	1718	1201	1661
Phosphorus	ppm ASTM D5185m 780	729	1061	743
Zinc	ppm ASTM D5185m 870	983	1315	947
Sulfur	ppm ASTM D5185m 2040	2530	3427	2697

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	5	5	9
Sodium	ppm ASTM D5185m	7	18	3
Potassium	ppm ASTM D5185m >20	5	10	8

INFRA-RED

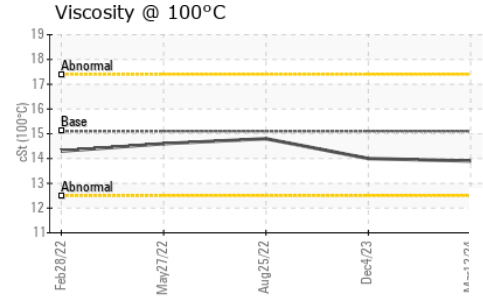
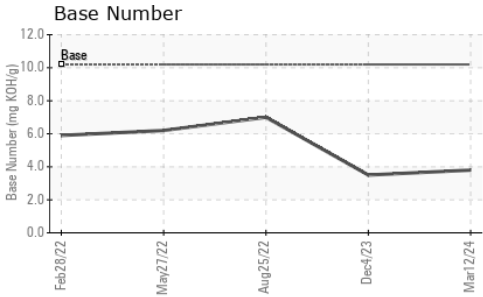
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	0	0	0
Nitration	Abs/cm *ASTM D7624 >20	11.1	10.6	10.0
Sulfation	Abs/.1mm *ASTM D7415 >30	22.6	22.6	21.2

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	18.2	18.2	16.4
Base Number (BN)	mg KOH/g ASTM D2896 10.2	3.8	▲ 3.5	7



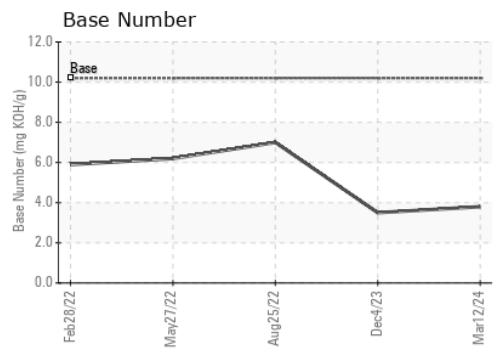
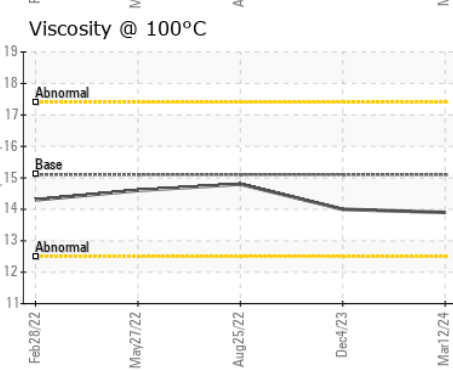
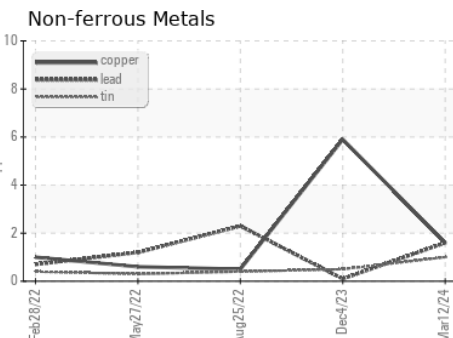
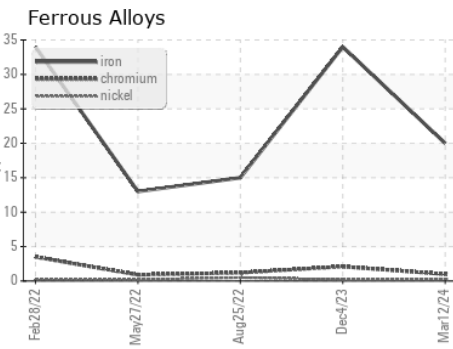
OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	13.9	14.0

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0110803
Lab Number : 06124781
Unique Number : 10938932
Test Package : FLEET
Received : 21 Mar 2024
Tested : 22 Mar 2024
Diagnosed : 22 Mar 2024 - Wes Davis

GFL Environmental - 146 - Augusta
 1064 Franke Industrial
 Augusta, GA
 US 30909
 Contact: JEFFERY WASHINGTON
 jeff.washington@gflenv.com

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)