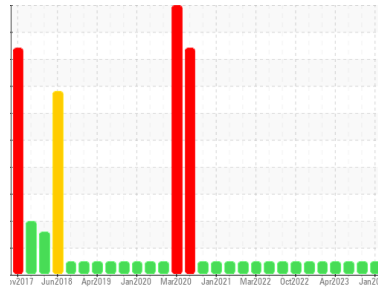




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(EIB678)

Machine Id
10808

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 15W40 (11 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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	GFL0109898	GFL0101157	GFL0089583
Sample Date	Client Info	21 Jan 2024	08 Jan 2024	04 Nov 2023
Machine Age	hrs	11594	592	0
Oil Age	hrs	450	150	0
Oil Changed	Client Info	Not Changed	Not Changed	Not Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >3.0	<1.0	<1.0	<1.0
Water	WC Method >0.2	NEG	NEG	NEG
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >75	4	4	4
Chromium	ppm ASTM D5185m >5	0	<1	0
Nickel	ppm ASTM D5185m >4	0	<1	0
Titanium	ppm ASTM D5185m >2	0	0	0
Silver	ppm ASTM D5185m >2	0	0	0
Aluminum	ppm ASTM D5185m >15	1	3	2
Lead	ppm ASTM D5185m >25	0	0	0
Copper	ppm ASTM D5185m >100	<1	0	0
Tin	ppm ASTM D5185m >4	0	<1	0
Vanadium	ppm ASTM D5185m	0	<1	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	5	2	10
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 60	55	56	58
Manganese	ppm ASTM D5185m 0	0	<1	0
Magnesium	ppm ASTM D5185m 1010	857	906	832
Calcium	ppm ASTM D5185m 1070	1028	979	988
Phosphorus	ppm ASTM D5185m 1150	842	993	893
Zinc	ppm ASTM D5185m 1270	1077	1215	1148
Sulfur	ppm ASTM D5185m 2060	2762	2983	2878

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	3	2	4
Sodium	ppm ASTM D5185m	3	0	0
Potassium	ppm ASTM D5185m >20	0	0	0

INFRA-RED

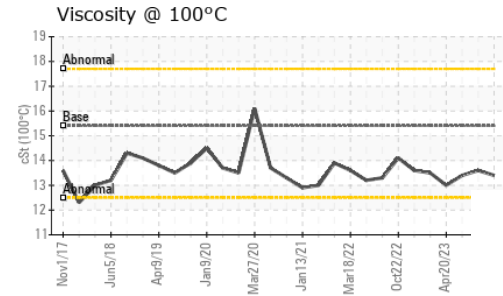
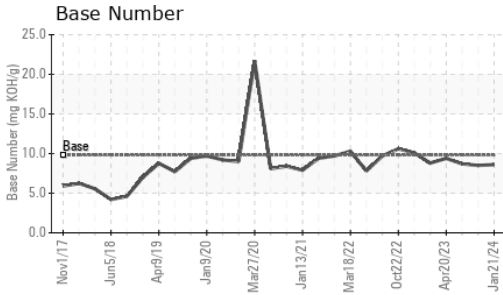
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >6	0.1	0.2	0.2
Nitration	Abs/cm *ASTM D7624 >20	5.2	5.7	5.2
Sulfation	Abs/.1mm *ASTM D7415 >30	16.8	17.0	17.1

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	12.4	12.6	12.3
Base Number (BN)	mg KOH/g ASTM D2896 9.8	8.6	8.5	8.7



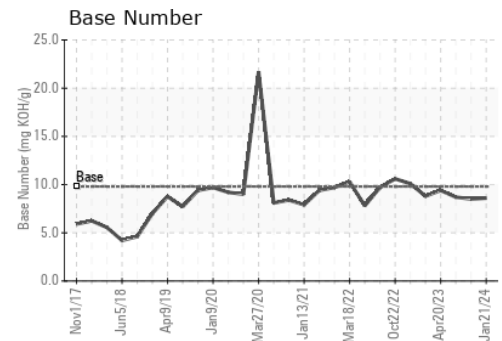
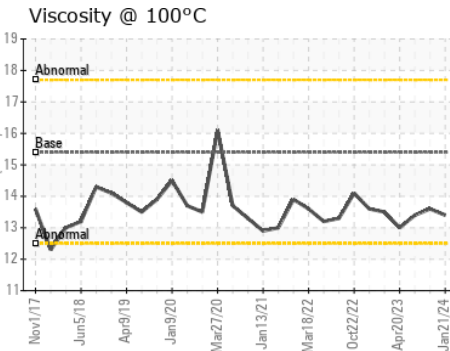
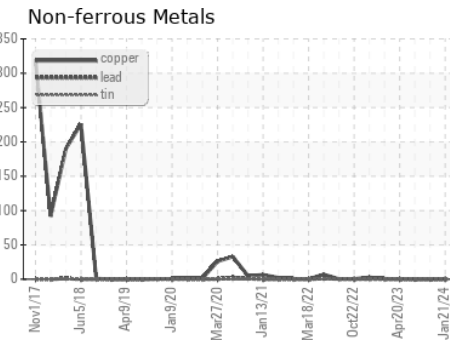
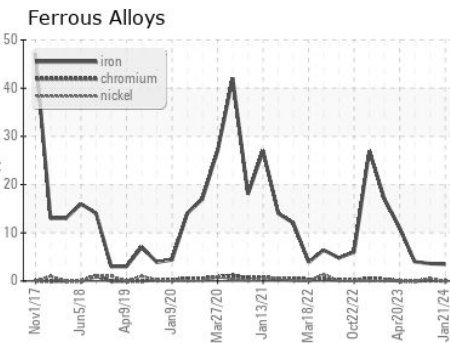
OIL ANALYSIS REPORT



VISUAL	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	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.6	13.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0109898 **Received** : 24 Jan 2024
Lab Number : **06069317** **Diagnosed** : 24 Jan 2024
Unique Number : 10845994 **Diagnostician** : Wes Davis
Test Package : FLEET

GFL Environmental - 010 - Stockbridge
 1280 Rum Creek Parkway
 Stockbridge, GA
 US 30281
 Contact: JOSHUA TINKER
 joshuatinker@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)

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F: