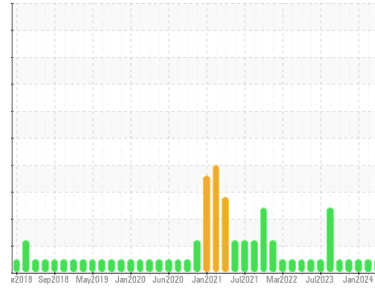




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
CUMMINS 10862

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 15W40 (7 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. 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	GFL0109114	GFL0109112	GFL0109107
Sample Date	Client Info	25 Jan 2024	24 Jan 2024	15 Jan 2024
Machine Age	hrs	14940	14940	14813
Oil Age	hrs	0	0	14813
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
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	14	4	15
Chromium	ppm ASTM D5185m >5	<1	0	<1
Nickel	ppm ASTM D5185m >4	0	0	0
Titanium	ppm ASTM D5185m >2	<1	<1	0
Silver	ppm ASTM D5185m >2	0	0	0
Aluminum	ppm ASTM D5185m >15	3	2	3
Lead	ppm ASTM D5185m >25	<1	0	0
Copper	ppm ASTM D5185m >100	<1	<1	2
Tin	ppm ASTM D5185m >4	0	0	<1
Vanadium	ppm ASTM D5185m	0	0	<1
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	15	22	55
Barium	ppm ASTM D5185m 0	0	0	<1
Molybdenum	ppm ASTM D5185m 60	65	61	94
Manganese	ppm ASTM D5185m 0	0	<1	3
Magnesium	ppm ASTM D5185m 1010	736	747	704
Calcium	ppm ASTM D5185m 1070	1168	1133	1370
Phosphorus	ppm ASTM D5185m 1150	992	983	827
Zinc	ppm ASTM D5185m 1270	1110	1111	1006
Sulfur	ppm ASTM D5185m 2060	2815	2964	3174

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	4	4	16
Sodium	ppm ASTM D5185m	2	4	12
Potassium	ppm ASTM D5185m >20	0	0	6
Fuel	% ASTM D3524 >3.0	0.4	1.8	<1.0

INFRA-RED

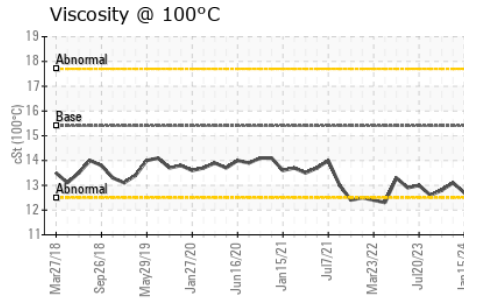
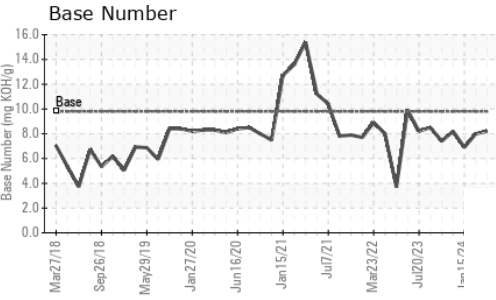
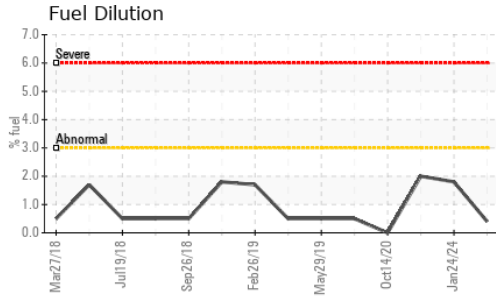
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >6	1.8	0.2	0.5
Nitration	Abs/cm *ASTM D7624 >20	8.8	5.9	9.7
Sulfation	Abs/.1mm *ASTM D7415 >30	20.3	17.1	19.4

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	13.4	12.5	16.6
Base Number (BN)	mg KOH/g ASTM D2896 9.8	8.2	8.0	6.9



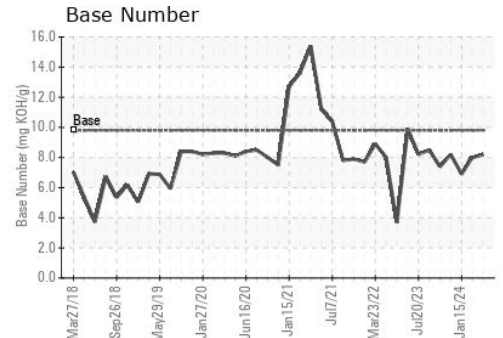
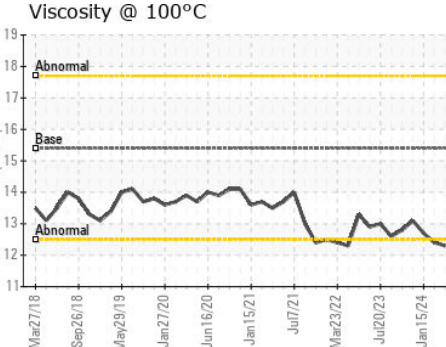
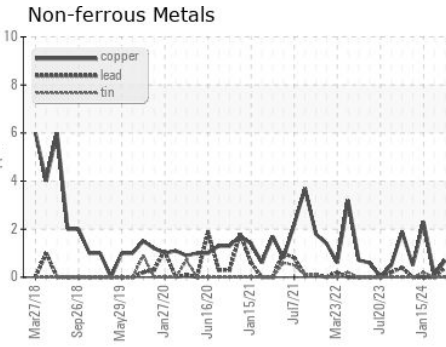
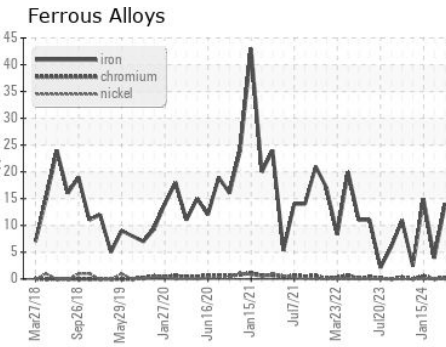
OIL ANALYSIS REPORT



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	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.4	12.3	12.4	12.7

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : GFL0109114 **Received** : 29 Jan 2024
 Lab Number : **06072492** **Diagnosed** : 31 Jan 2024
 Unique Number : 10849169 **Diagnostician** : Wes Davis
 Test Package : FLEET (Additional Tests: FUELDILUTION, PercentFuel)

GFL Environmental - 009 - Fairburn
 6905 Roosevelt Hwy
 Fairburn, GA
 US 30213
 Contact: Eric Jones
 erjones@gflenv.com
 T: (678)630-9927
 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)