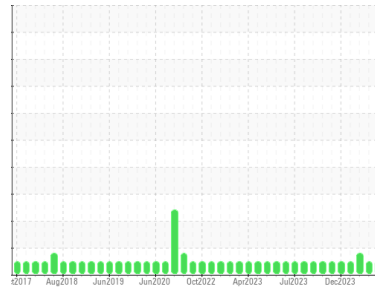




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(DXE795)

Machine Id
10590

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 15W40 (--- 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	GFL0111452	GFL0068826	GFL0068907	
Sample Date	Client Info	28 Jun 2024	11 Mar 2024	01 Mar 2024	
Machine Age	hrs	Client Info	18279	18023	17907
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info	Not Changed	Not Changd	Not Changed	
Sample Status		NORMAL	NORMAL	MARGINAL	

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	▲ 4.9
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 >100	18	19	16
Chromium	ppm ASTM D5185m >20	<1	<1	<1
Nickel	ppm ASTM D5185m >4	0	0	0
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >20	3	3	3
Lead	ppm ASTM D5185m >40	0	0	0
Copper	ppm ASTM D5185m >330	1	1	<1
Tin	ppm ASTM D5185m >15	0	0	0
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	10	5	2
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 60	56	53	54
Manganese	ppm ASTM D5185m 0	0	<1	<1
Magnesium	ppm ASTM D5185m 1010	898	861	869
Calcium	ppm ASTM D5185m 1070	1028	961	969
Phosphorus	ppm ASTM D5185m 1150	1014	954	918
Zinc	ppm ASTM D5185m 1270	1227	1146	1091
Sulfur	ppm ASTM D5185m 2060	2833	2837	2757

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	8	9	8
Sodium	ppm ASTM D5185m	6	4	5
Potassium	ppm ASTM D5185m >20	2	1	1

INFRA-RED

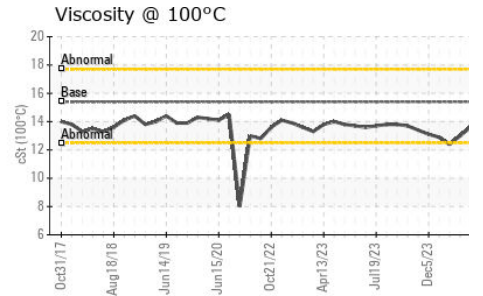
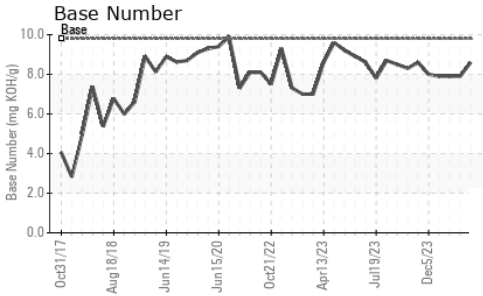
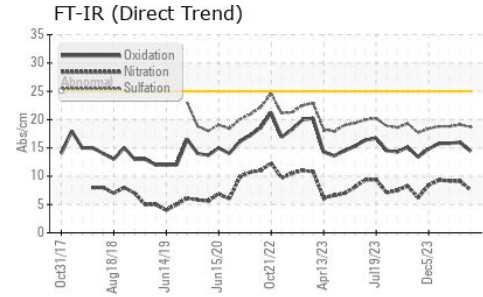
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.5	0.7	0.6
Nitration	Abs/cm *ASTM D7624 >20	7.6	9.1	9.2
Sulfation	Abs/.1mm *ASTM D7415 >30	18.7	19.1	18.8

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	14.4	16.0	15.8
Base Number (BN)	mg KOH/g ASTM D2896 9.8	8.6	7.9	7.9



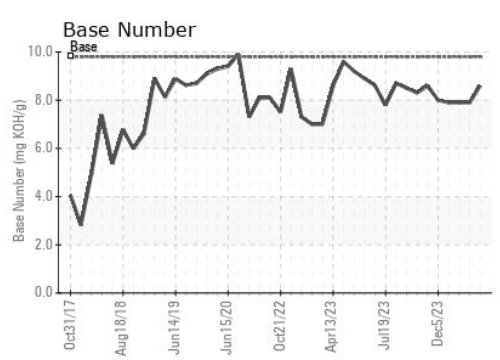
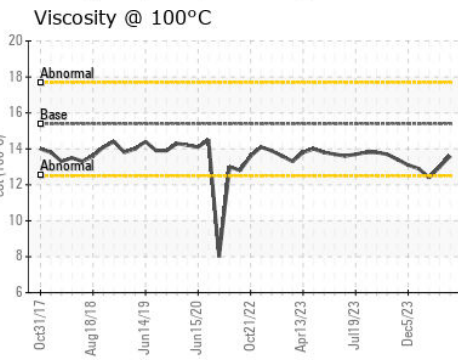
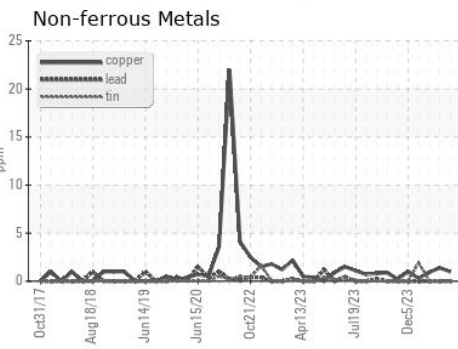
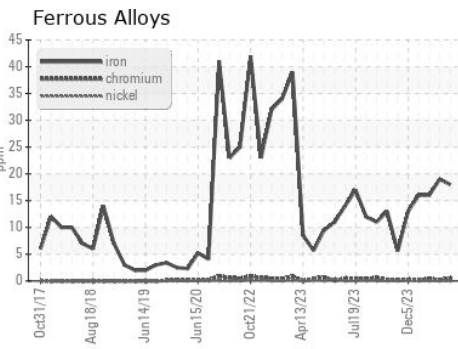
OIL ANALYSIS REPORT



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	13.6	13.0

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0111452 **Received** : 03 Jul 2024
Lab Number : **06227103** **Tested** : 05 Jul 2024
Unique Number : 11110596 **Diagnosed** : 05 Jul 2024 - Wes Davis
Test Package : FLEET

GFL Environmental - 073 - Warner Robins - Transwaste
 155 Story Road
 Warner Robins, GA
 US 31093
 Contact: JOSH MALONEY
 jmaloney@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)