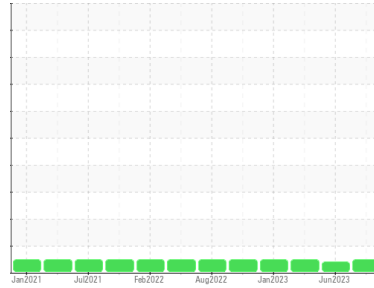




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
426016
 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 condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0090870	GFL0082568	GFL0071300
Sample Date	Client Info	05 Sep 2023	27 Jun 2023	08 Mar 2023
Machine Age	hrs	0	508207	15855
Oil Age	hrs	16810	0	15598
Oil Changed	Client Info	N/A	N/A	Changed
Sample Status		NORMAL	ABNORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >3.0	<1.0	0.7	<1.0
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >120	4	7	4
Chromium	ppm ASTM D5185(m) >20	0	0	0
Nickel	ppm ASTM D5185(m) >5	0	<1	<1
Titanium	ppm ASTM D5185(m) >2	0	<1	<1
Silver	ppm ASTM D5185(m) >2	0	0	0
Aluminum	ppm ASTM D5185(m) >20	<1	1	1
Lead	ppm ASTM D5185(m) >40	1	2	<1
Copper	ppm ASTM D5185(m) >330	<1	<1	<1
Tin	ppm ASTM D5185(m) >15	<1	<1	<1
Antimony	ppm ASTM D5185(m)	0	0	<1
Vanadium	ppm ASTM D5185(m)	0	0	0
Beryllium	ppm ASTM D5185(m)	0	0	0
Cadmium	ppm ASTM D5185(m)	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 0	5	25	4
Barium	ppm ASTM D5185(m) 0	0	0	0
Molybdenum	ppm ASTM D5185(m) 60	56	44	58
Manganese	ppm ASTM D5185(m) 0	<1	<1	<1
Magnesium	ppm ASTM D5185(m) 1010	907	598	927
Calcium	ppm ASTM D5185(m) 1070	1063	1543	1085
Phosphorus	ppm ASTM D5185(m) 1150	967	831	1088
Zinc	ppm ASTM D5185(m) 1270	1127	947	1158
Sulfur	ppm ASTM D5185(m) 2060	2359	2182	2581
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	3	5	3
Sodium	ppm ASTM D5185(m)	4	3	2
Potassium	ppm ASTM D5185(m) >20	<1	<1	0

INFRA-RED

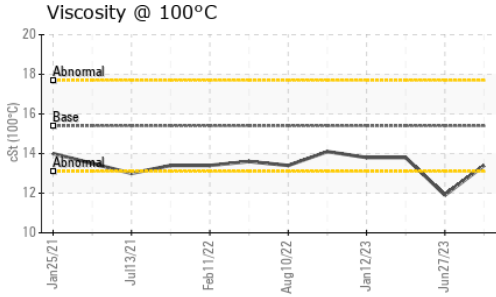
method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >4	0.2	0.2	0
Nitration	Abs/cm ASTM D7624* >20	7.0	8.4	7.0
Sulfation	Abs/.1mm ASTM D7415* >30	20.6	22.0	20.8

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414* >25	14.9	20.2	14.8



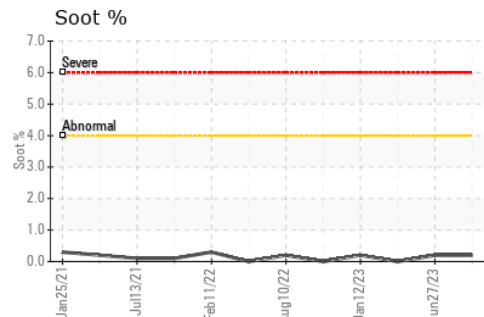
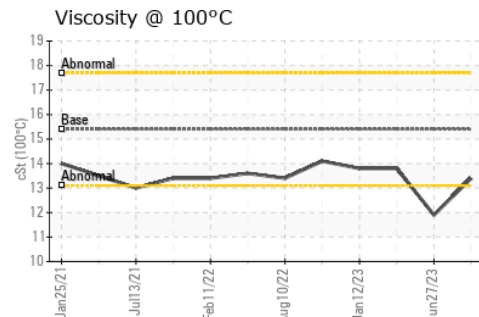
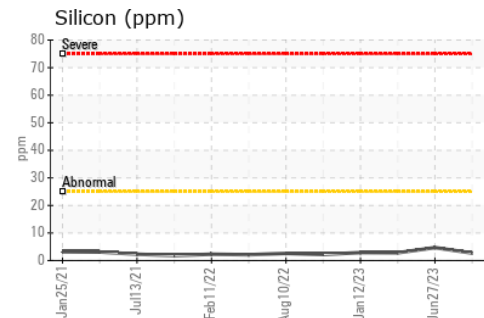
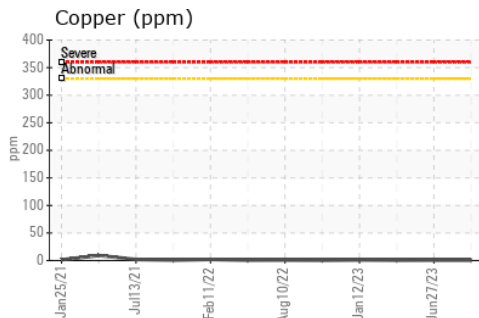
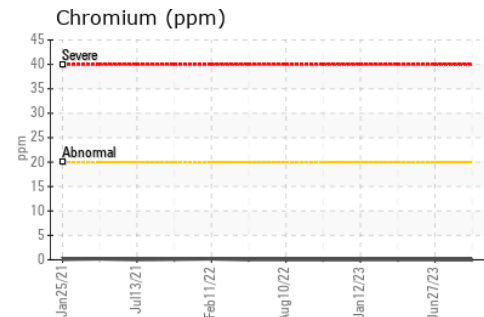
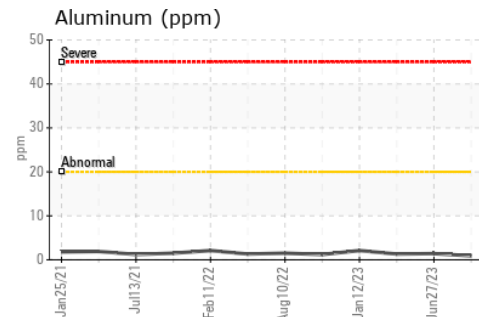
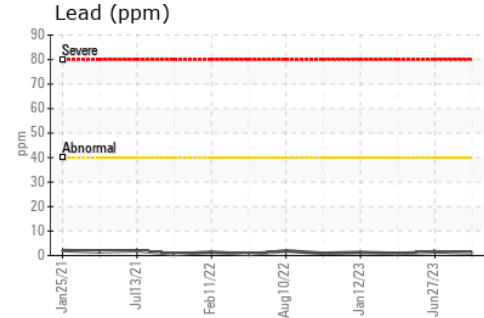
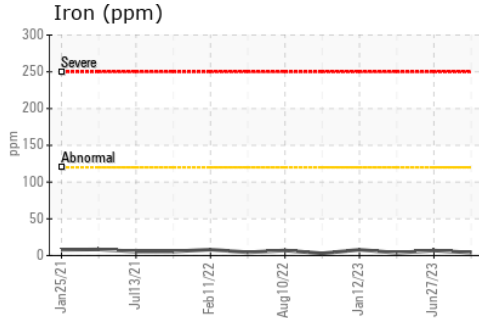
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
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 D7279(m)	15.4	▲ 11.9	13.8

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 246 - Windsor**
Sample No. : GFL0090870 **Received** : 08 Sep 2023 2700 Deziel Dr
Lab Number : 02581067 **Diagnosed** : 08 Sep 2023 Windsor, ON
Unique Number : 5642132 **Diagnostician** : Wes Davis CA N8W 5H8
Test Package : MOB 1

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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 T: (519)944-8009
 F: