



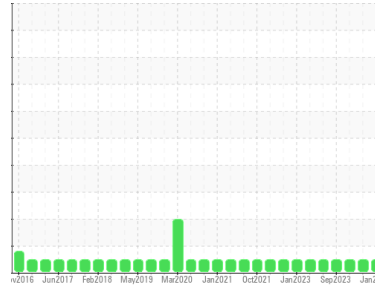
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
GFL272
 Machine Id
9239
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (40 LTR)



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	GFL0097567	GFL0097531	GFL0088959	
Sample Date	Client Info	24 Jan 2024	20 Nov 2023	13 Sep 2023	
Machine Age	hrs	Client Info	18489	17898	17368
Oil Age	hrs	Client Info	581	530	618
Oil Changed	Client Info	Changed	Changed	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 D5185(m) >120	6	12	9
Chromium	ppm ASTM D5185(m) >20	0	0	<1
Nickel	ppm ASTM D5185(m) >5	<1	<1	<1
Titanium	ppm ASTM D5185(m) >2	0	0	0
Silver	ppm ASTM D5185(m) >2	0	0	0
Aluminum	ppm ASTM D5185(m) >20	2	2	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	0	0	<1
Antimony	ppm ASTM D5185(m)	0	0	0
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	3	5	4
Barium	ppm ASTM D5185(m) 0	0	<1	0
Molybdenum	ppm ASTM D5185(m) 60	60	61	59
Manganese	ppm ASTM D5185(m) 0	0	0	<1
Magnesium	ppm ASTM D5185(m) 1010	971	983	967
Calcium	ppm ASTM D5185(m) 1070	1069	1093	1062
Phosphorus	ppm ASTM D5185(m) 1150	1013	988	1028
Zinc	ppm ASTM D5185(m) 1270	1178	1212	1189
Sulfur	ppm ASTM D5185(m) 2060	2576	2315	2373
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

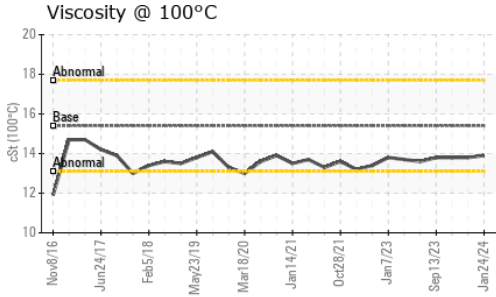
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	4	4	4
Sodium	ppm ASTM D5185(m)	4	12	4
Potassium	ppm ASTM D5185(m) >20	<1	0	0

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >4	0.2	0.2	0.2
Nitration	Abs/cm ASTM D7624* >20	9.1	8.9	7.6
Sulfation	Abs./1mm ASTM D7415* >30	21.2	21.9	19.8



OIL ANALYSIS REPORT



FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	18.0	18.8

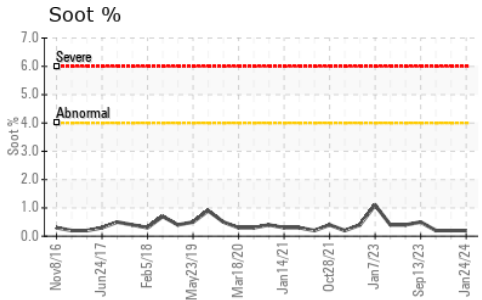
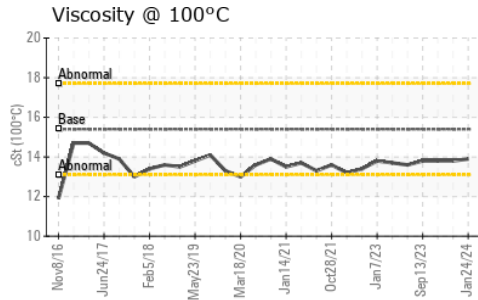
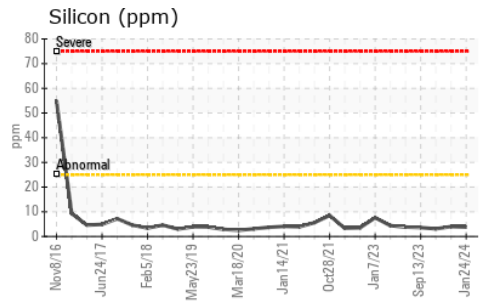
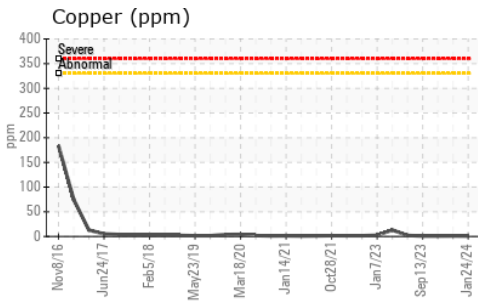
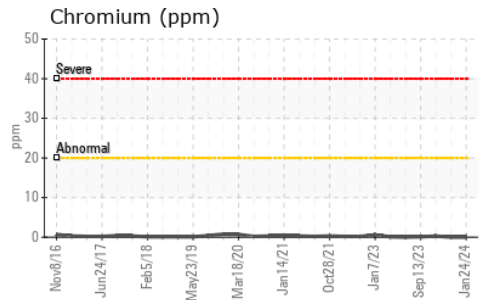
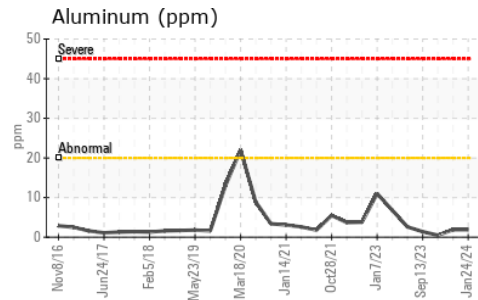
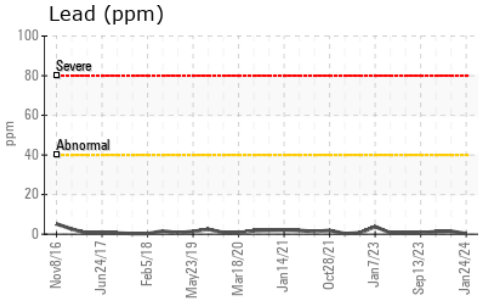
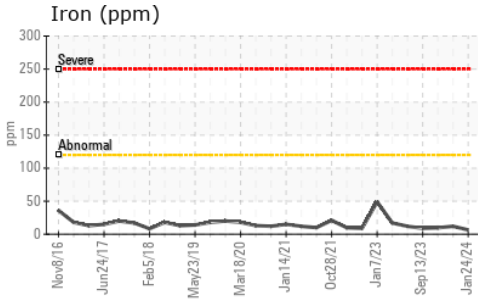
VISUAL

	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	13.9	13.8

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0097567 **Received** : 02 Feb 2024
Lab Number : 02613039 **Diagnosed** : 02 Feb 2024
Unique Number : 5722134 **Diagnostician** : Wes Davis
Test Package : MOB 1

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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.