



OIL ANALYSIS REPORT

Sample Rating Trend



FUEL

Machine Id
101046

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0100591	---	---
Sample Date	Client Info	20 Jan 2024	---	---
Machine Age	kms Client Info	164921	---	---
Oil Age	kms Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	NEG	---	---
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>100	60	---	---
Chromium ppm ASTM D5185(m)	>20	3	---	---
Nickel ppm ASTM D5185(m)	>4	2	---	---
Titanium ppm ASTM D5185(m)		0	---	---
Silver ppm ASTM D5185(m)	>3	<1	---	---
Aluminum ppm ASTM D5185(m)	>20	6	---	---
Lead ppm ASTM D5185(m)	>40	18	---	---
Copper ppm ASTM D5185(m)	>330	12	---	---
Tin ppm ASTM D5185(m)	>15	3	---	---
Antimony ppm ASTM D5185(m)		0	---	---
Vanadium ppm ASTM D5185(m)		0	---	---
Beryllium ppm ASTM D5185(m)		0	---	---
Cadmium ppm ASTM D5185(m)		0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)	0	5	---	---
Barium ppm ASTM D5185(m)	0	0	---	---
Molybdenum ppm ASTM D5185(m)	60	50	---	---
Manganese ppm ASTM D5185(m)	0	<1	---	---
Magnesium ppm ASTM D5185(m)	1010	845	---	---
Calcium ppm ASTM D5185(m)	1070	1003	---	---
Phosphorus ppm ASTM D5185(m)	1150	849	---	---
Zinc ppm ASTM D5185(m)	1270	1038	---	---
Sulfur ppm ASTM D5185(m)	2060	2123	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

CONTAMINANTS

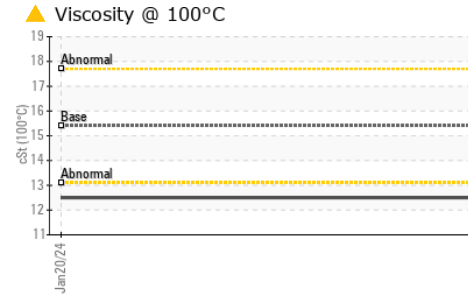
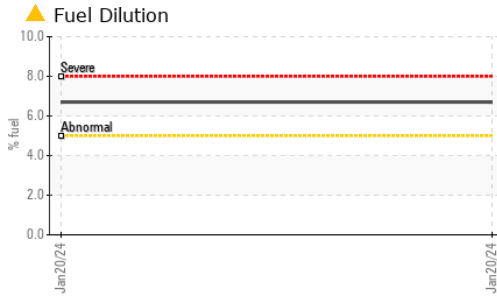
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>25	10	---	---
Sodium ppm ASTM D5185(m)		8	---	---
Potassium ppm ASTM D5185(m)	>20	1	---	---
Fuel % ASTM D7593*	>5	▲ 6.7	---	---

INFRA-RED

method	limit/base	current	history1	history2
Soot % ASTM D7844*	>3	0.6	---	---
Nitration Abs/cm ASTM D7624*	>20	12.6	---	---
Sulfation Abs/.1mm ASTM D7415*	>30	25.0	---	---



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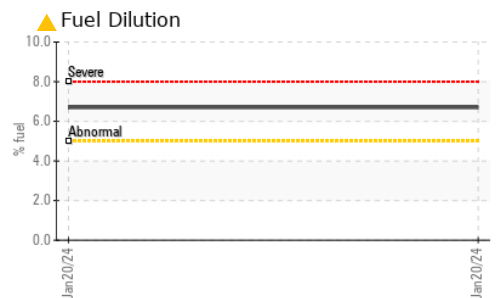
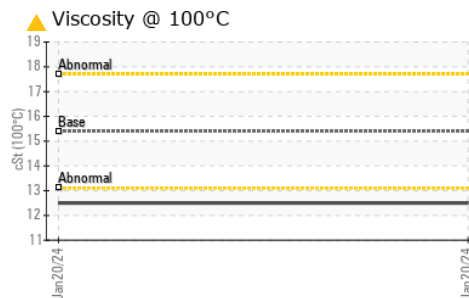
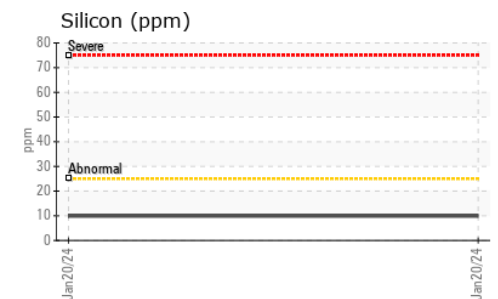
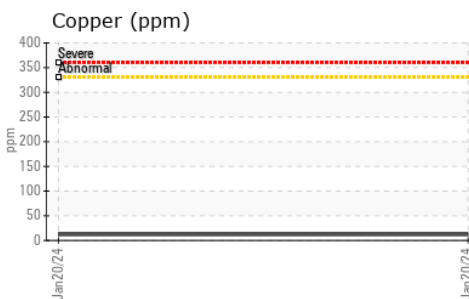
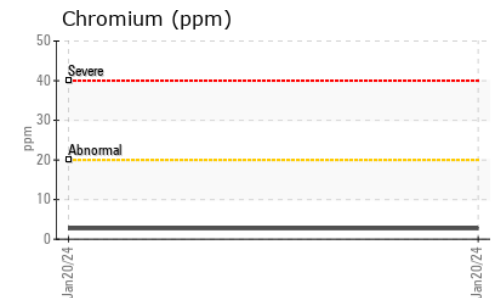
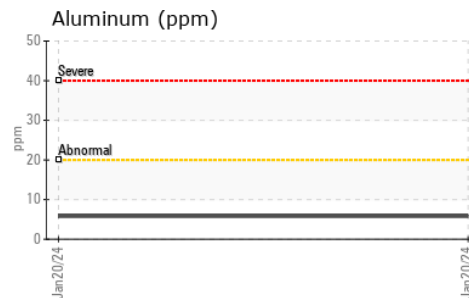
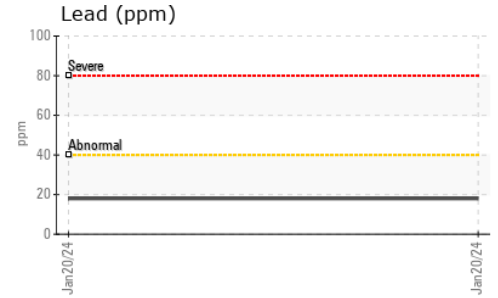
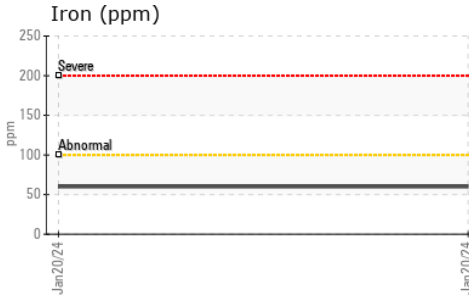


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs.:1mm	ASTM D7414*	>25	27.6	---	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ 12.5	---	---

GRAPHS



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 575 - Squamish Hauling
Sample No. : GFL0100591 **Received** : 24 Jan 2024 38950 Queens Way,
Lab Number : **02610824** **Diagnosed** : 26 Jan 2024 Squamish, BC
Unique Number : 5711910 **Diagnostician** : Kevin Marson CA V8B 0K8
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel) Contact: Dean Imbeau
dimbeau@gflenv.com

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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