



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
501128

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (--- 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		GFL0107887	---	---
Sample Date	Client Info		04 Mar 2024	---	---
Machine Age	kms	Client Info	361957	---	---
Oil Age	kms	Client Info	0	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	---	---
Water	WC Method	>0.2	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >110	27	---	---
Chromium	ppm	ASTM D5185(m) >4	1	---	---
Nickel	ppm	ASTM D5185(m) >2	<1	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m) >2	<1	---	---
Aluminum	ppm	ASTM D5185(m) >25	10	---	---
Lead	ppm	ASTM D5185(m) >45	<1	---	---
Copper	ppm	ASTM D5185(m) >85	1	---	---
Tin	ppm	ASTM D5185(m) >4	<1	---	---
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) 2	5	---	---
Barium	ppm	ASTM D5185(m) 0	0	---	---
Molybdenum	ppm	ASTM D5185(m) 50	61	---	---
Manganese	ppm	ASTM D5185(m) 0	0	---	---
Magnesium	ppm	ASTM D5185(m) 950	986	---	---
Calcium	ppm	ASTM D5185(m) 1050	1092	---	---
Phosphorus	ppm	ASTM D5185(m) 995	1034	---	---
Zinc	ppm	ASTM D5185(m) 1180	1205	---	---
Sulfur	ppm	ASTM D5185(m) 2600	2754	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

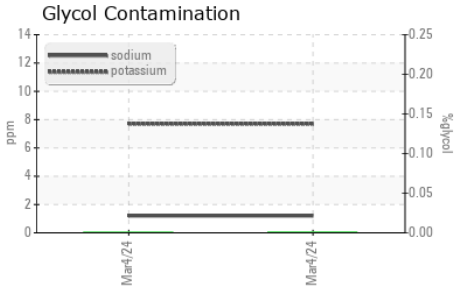
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >30	5	---	---
Sodium	ppm	ASTM D5185(m)	1	---	---
Potassium	ppm	ASTM D5185(m) >20	8	---	---
Glycol	%	ASTM D7922*	0.0	---	---

INFRA-RED

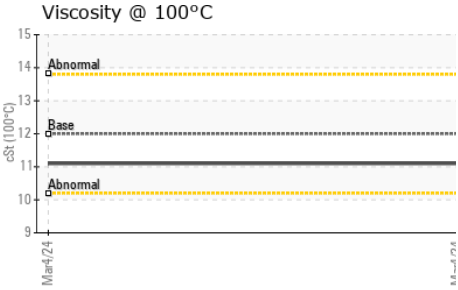
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0.4	---	---
Nitration	Abs/cm	ASTM D7624* >20	10.3	---	---
Sulfation	Abs/.1mm	ASTM D7415* >30	19.6	---	---



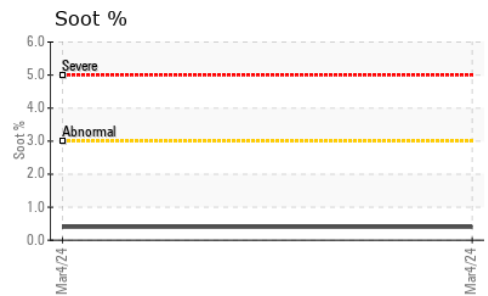
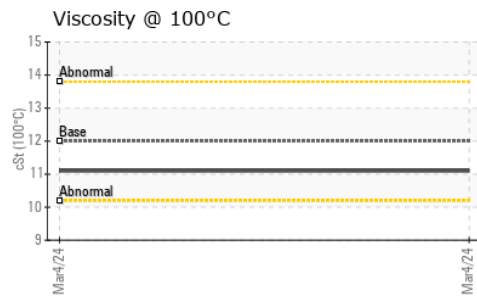
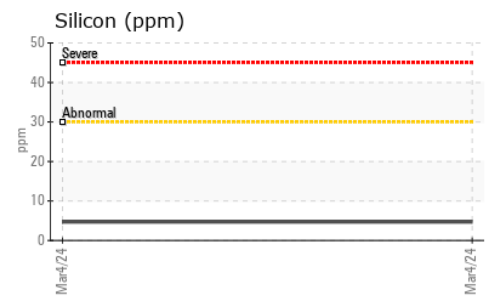
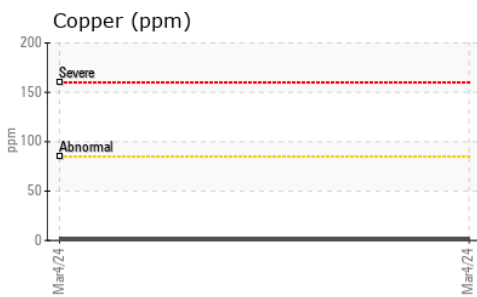
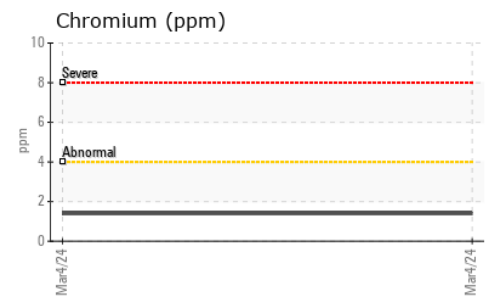
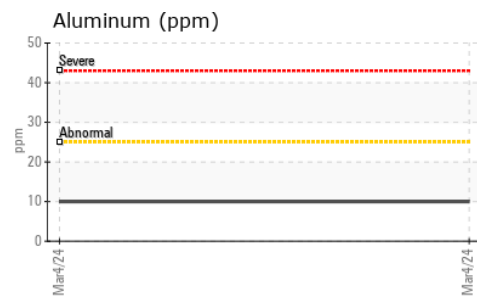
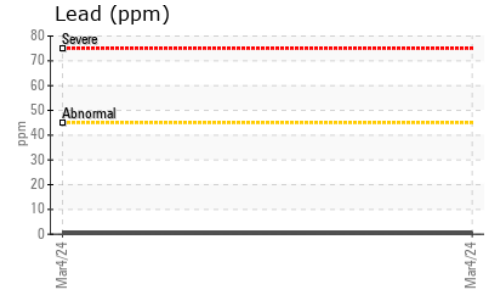
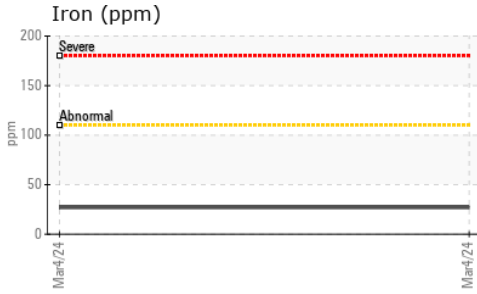
OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	16.4	---	---
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)	12.00	11.1	---	---



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 310 - Winnipeg**
Sample No. : GFL0107887 **Received** : 05 Mar 2024 #360 – 555 Hervo Street,
Lab Number : 02619906 **Tested** : 05 Mar 2024 Winnipeg, MB
Unique Number : 5737016 **Diagnosed** : 05 Mar 2024 - Wes Davis CA R3T 3L6
Test Package : MOB 1 (Additional Tests: Glycol) Contact: Joshua Lourenco
 jlourenco@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.