



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
P130023
 Component
Natural Gas Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0084275	---	---
Sample Date	Client Info		04 Jul 2023	---	---
Machine Age	kms	Client Info	81458	---	---
Oil Age	kms	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			NORMAL	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >45	13	---	---
Chromium	ppm	ASTM D5185(m) >4	<1	---	---
Nickel	ppm	ASTM D5185(m) >4	<1	---	---
Titanium	ppm	ASTM D5185(m) >5	0	---	---
Silver	ppm	ASTM D5185(m) >3	0	---	---
Aluminum	ppm	ASTM D5185(m) >25	2	---	---
Lead	ppm	ASTM D5185(m) >45	<1	---	---
Copper	ppm	ASTM D5185(m) >175	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) 250	10	---	---
Barium	ppm	ASTM D5185(m) 10	0	---	---
Molybdenum	ppm	ASTM D5185(m) 100	56	---	---
Manganese	ppm	ASTM D5185(m)	<1	---	---
Magnesium	ppm	ASTM D5185(m) 450	600	---	---
Calcium	ppm	ASTM D5185(m) 3000	1695	---	---
Phosphorus	ppm	ASTM D5185(m) 1150	766	---	---
Zinc	ppm	ASTM D5185(m) 1350	959	---	---
Sulfur	ppm	ASTM D5185(m) 4250	2017	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	4	---	---
Sodium	ppm	ASTM D5185(m) >158	8	---	---
Potassium	ppm	ASTM D5185(m) >20	<1	---	---

INFRA-RED

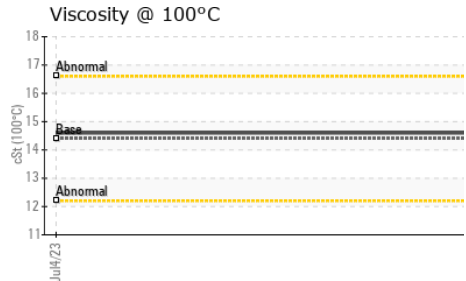
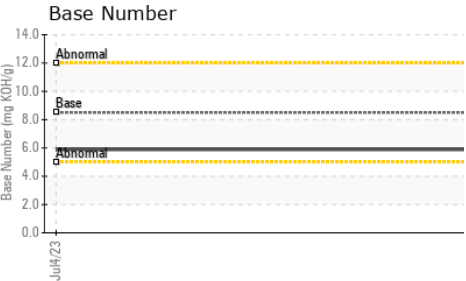
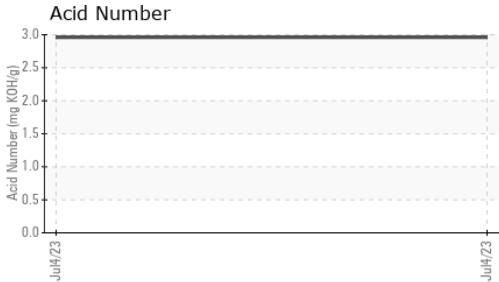
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	2.96	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	5.89	---
i-pH	Scale 0-14	ASTM D7946*	<4.5	5.09	---



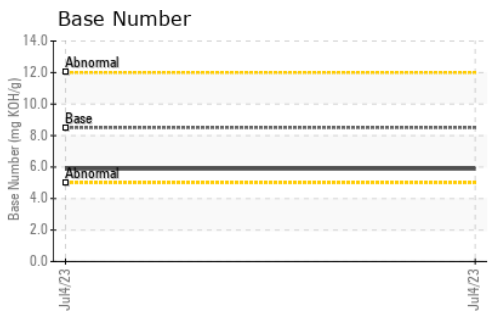
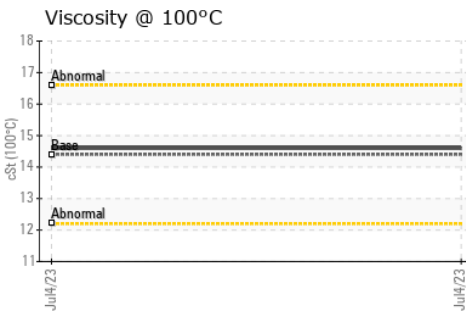
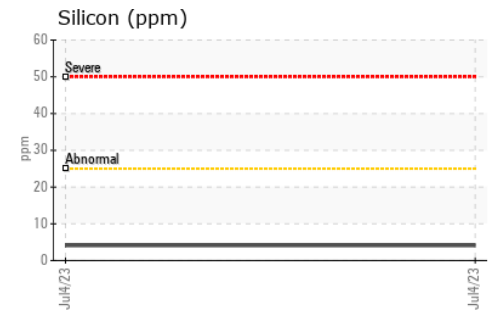
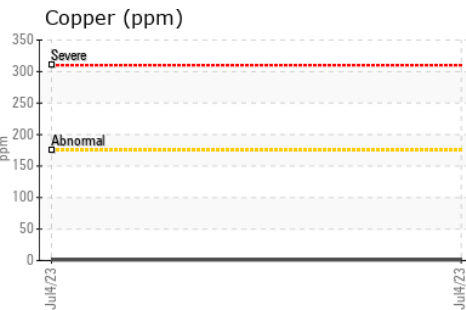
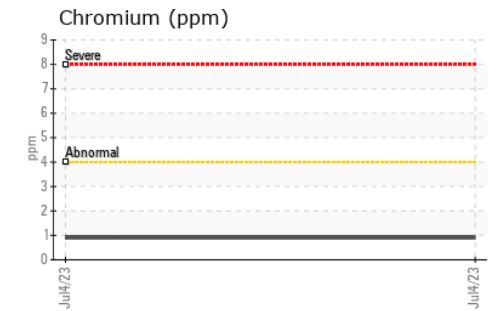
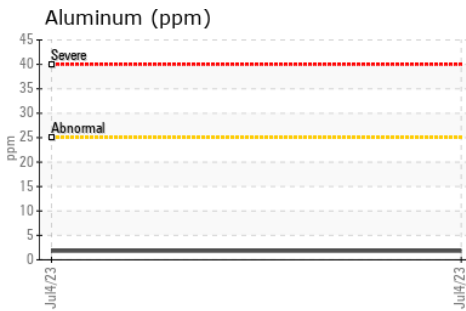
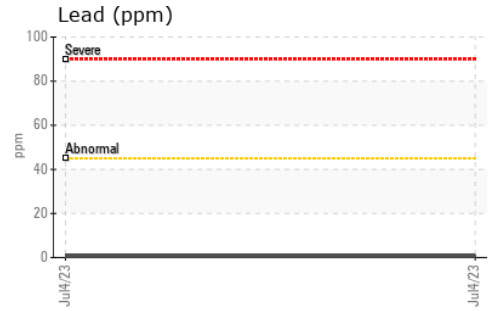
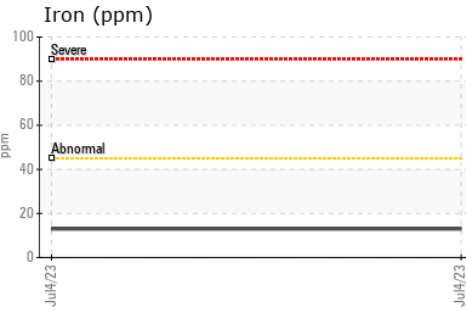
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.6	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County
Sample No. : GFL0084275 **Received** : 11 Jul 2023
Lab Number : 02568984 **Diagnosed** : 12 Jul 2023
Unique Number : 5606030 **Diagnostician** : Wes Davis
Test Package : MOB 2 (Additional Tests: i-pH, TAN Auto, TAN Man)

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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