

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

Machine Id 910079

Component Diesel Engine

Fluid CASTROL 15W40 (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

Fluid Condition

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100739	GFL0079571	GFL0021459
Sample Date		Client Info		07 Mar 2024	15 Sep 2023	05 Apr 2021
Machine Age	kms	Client Info		42193	37812	7555
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	4	9	28
Chromium	ppm	ASTM D5185(m)	>20	0	<1	1
Nickel	ppm	ASTM D5185(m)	>5	<1	1	10
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	1
Aluminum	ppm	ASTM D5185(m)	>20	1	1	2
Lead	ppm	ASTM D5185(m)	>40	0	<1	2
Copper	ppm	ASTM D5185(m)	>330	<1	1	41
Tin	ppm	ASTM D5185(m)	>15	0	<1	3
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)		15	88	39
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		57	62	39
Manganese	ppm	ASTM D5185(m)		0	<1	4
Magnesium	ppm	ASTM D5185(m)		942	1022	483
Calcium	ppm	ASTM D5185(m)		1048	1021	1584
Phosphorus	ppm	ASTM D5185(m)		1019	1050	893
Zinc	ppm	ASTM D5185(m)		1150	1161	1122
Sulfur	ppm	ASTM D5185(m)		2804	2776	2494
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	4	76
Sodium	ppm	ASTM D5185(m)	>406	1	2	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	8
Fuel	%	ASTM D7593*	>3.0	0.7	<1.0	0.3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	4.9	6.6	7.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.9	19.2	24.1



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Laboratory CALA Sample No. Lab Number : 02621039 Tested : 12 Mar 2024 St. Catharines, ON ISO 17025:2017 Accredited Laboratory Unique Number : 5746158 : 12 Mar 2024 - Kevin Marson CA L2P 3Y1 Diagnosed Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel) Contact: Kelly Bremner To discuss this sample report, contact Customer Service at 1-800-268-2131. kbremner@gflenv.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (437)235-6849 Validity of results and interpretation are based on the sample and information as supplied.

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