

OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend





DIAGNOSIS Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high 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 Number Sample Date Machine Age	hrs	Client Info Client Info Client Info		GFL0118959 03 May 2024 21234	GFL0102588 05 Feb 2024 0	GFL0101712 22 Nov 2023 20429
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				SEVERE	NORMAL	SEVERE
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	7	12	12
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<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	3	3	5
Lead	ppm	ASTM D5185(m)	>40	0	<1	2
Copper	ppm	ASTM D5185(m)	>330	1	3	2
Tin	ppm	ASTM D5185(m)	>15	0	0	0
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)	2	1	2	2
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	50	50	60	46
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	950	810	979	692
Calcium	ppm	ASTM D5185(m)	1050	890	1092	786
Phosphorus	ppm	ASTM D5185(m)	995	858	990	698
Zinc	ppm	ASTM D5185(m)	1180	997	1186	861
Sulfur	ppm	ASTM D5185(m)	2600	2223	2478	1958
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	5	8
Sodium	ppm	ASTM D5185(m)		45	9	15
Potassium	ppm	ASTM D5185(m)	>20	2	5	4
Fuel	%	ASTM D7593*	>3.0	1 5.3	0.8	▲ 17
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0	0.2	0.3
Nitration	Abs/cm	ASTM D7624*	>20	7.5	8.6	9.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.6	20.2	20.4



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Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW CALA Sample No. : GFL0118959 Received :08 May 2024 8409 -15th Street NW Lab Number : 02634039 Tested :09 May 2024 Edmonton, AB ISO 17025:2017 Accredited Unique Number : 5775192 Diagnosed : 09 May 2024 - Wes Davis CA T6P 0B8 Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI) Contact: Tim Greig To discuss this sample report, contact Customer Service at 1-800-268-2131. tgreig@gflenv.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (780)231-0521 Validity of results and interpretation are based on the sample and information as supplied. E:

1028/23

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Contact/Location: Tim Greig - GFL554 Page 2 of 2