

OIL ANALYSIS REPORT

EX0040

Component

Diesel Engine

{not provided} (--- GAL)

Sample Rating Trend **FUEL**

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Light fuel dilution occurring. No other contaminants were detected in the oil.

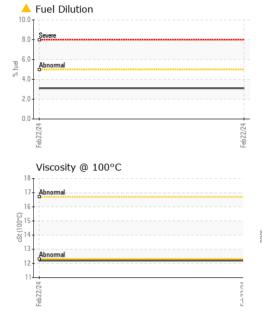
Fluid Condition

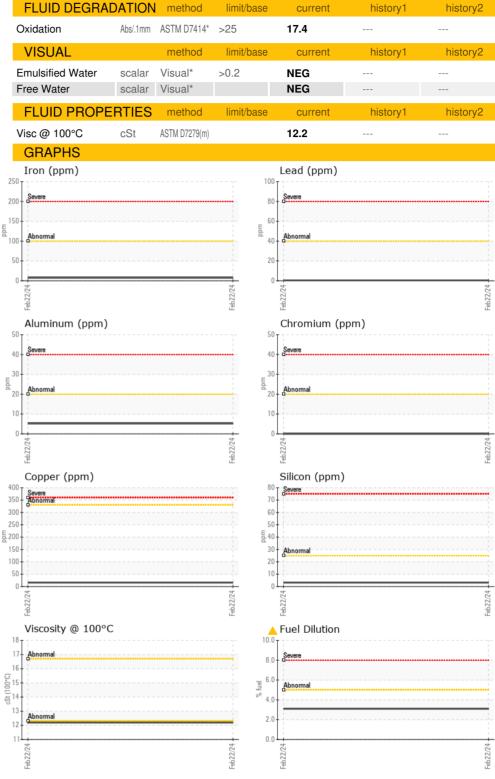
The condition of the oil is acceptable for the time in service.

				Feb 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113162		
Sample Date		Client Info		22 Feb 2024		
Machine Age	hrs	Client Info		4876		
Oil Age	hrs	Client Info		0		
Oil Changed	1113	Client Info		Changed		
Sample Status		Ollerit IIIIO		MARGINAL		
·				MANGINAL		1
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	8		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>20	5		
Lead	ppm	ASTM D5185(m)	>40	<1		
Copper	ppm	ASTM D5185(m)	>330	16		
Tin	ppm	ASTM D5185(m)	>15	0		
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		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		60		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		973		
Calcium	ppm	ASTM D5185(m)		1078		
Phosphorus	ppm	ASTM D5185(m)		998		
Zinc	ppm	ASTM D5185(m)		1170		
Sulfur	ppm	ASTM D5185(m)		2626		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3		
Sodium	ppm	ASTM D5185(m)		1		
Potassium	ppm	ASTM D5185(m)	>20	7		
Fuel	%	ASTM D7593*	>5	△ 3.1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.4		
Nitration	Abs/cm	ASTM D7644*	>20	7.4		
Sulfation	Abs/.1mm	ASTM D7024 ASTM D7415*	>30	20.9		
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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: GFL0113162 Lab Number : 02618246

Unique Number : 5735356

Received : 27 Feb 2024 **Tested**

Diagnosed

: 28 Feb 2024 : 28 Feb 2024 - Kevin Marson

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 582 - Nanaimo 3469 Aqua Terra Rd., Cassidy, BC CA VOR 1H0 Contact: Jonathan Hebden

Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-268-2131.

jhebden@gflenv.com T:

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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