

OIL ANALYSIS REPORT









NO UNIT GFL0110270

Component

Diesel Engine
Fluid

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 40 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

Moderate concentration of visible dirt/debris present in the oil.

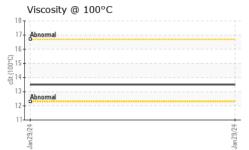
Fluid Condition

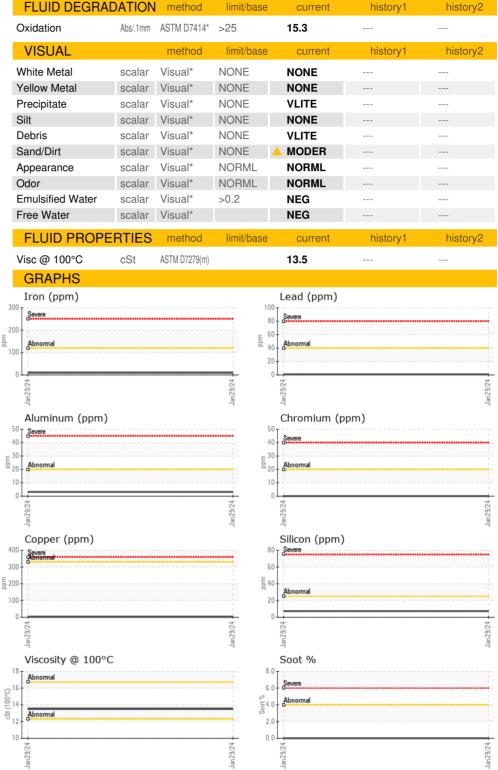
The oil is no longer serviceable due to the presence of contaminants.

L)				Jan 2024		
CAMPLE INCOR	AATIONI				for the control of	la la tarre O
SAMPLE INFORM	/IA HON	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110270		
Sample Date		Client Info		29 Jan 2024		
Machine Age	kms	Client Info		601090		
Oil Age	kms	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	10		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>5	<1		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>20	3		
Lead	ppm	ASTM D5185(m)	>40	<1		
Copper	ppm	ASTM D5185(m)	>330	2		
Tin	ppm	ASTM D5185(m)	>15	<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		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		58		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		959		
Calcium	ppm	ASTM D5185(m)		1054		
Phosphorus	ppm	ASTM D5185(m)		1012		
Zinc	ppm	ASTM D5185(m)		1165		
Sulfur	ppm	ASTM D5185(m)		2693		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7		
Sodium	ppm	ASTM D5185(m)		3		
Potassium	ppm	ASTM D5185(m)	>20	1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0		
Nitration	Abs/cm	ASTM D7624*	>20	8.7		
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.9		



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: GFL0110270

: 5722062

: 02612967

Recieved Diagnosed

: 02 Feb 2024 : 06 Feb 2024 Diagnostician : Bill Quesnel

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 252 - GTA Hauling 3668 Weston Road North York, ON

Test Package : MOB 1 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, Visual) Contact: Tom Hatzioannidis To discuss this sample report, contact Customer Service at 1-800-268-2131.

thatzioannidis@gflenv.com

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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