

GFL216 Machine Id 7840

Diesel Engine

DIESEL ENGINE OIL SAE 40 (27 GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. 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

Test for glycol is positive. There is a high concentration of glycol present in the oil. There is a moderate concentration of water present in the oil.

FLUID CONDITION

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

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0110261	GFL0101398	GFL0093778
Sample Date		Client Info		10 Feb 2024	30 Nov 2023	07 Sep 2023
Machine Age	hrs	Client Info		313288	0	302730
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	ATTENTION	ATTENTION
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Chromium	ppm	ASTM D5185(m)	>/5	30	30	33
Chronhum	ppm	AGTM DE105(m)	c<	-1	۲	0
Titonium	ppm	ASTM D5105(III)	>4	<1	<1	0
Litanium	ppm	ASTM D5185(m)	>2	0	0	0
Sliver	ppm	ASTM D5185(m)	>2	0	<	0
Aluminum	ppm	ASTM D5185(m)	>15	4	3	4
Lead	ppm	ASTM D5185(m)	>25	1	1	1
Copper	ppm	ASTM D5185(m)	>100	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	5	4	4
Potassium	ppm	ASTM D5185(m)	>20	<u> </u>	4	4
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water	%	ASTM D6304*	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.231	▲ 0.018	0.0
Soot %	%	ASTM D7844*	>6	1.2	3	0.1
Nitration	Abs/cm	ASTM D7624*	>20	14.0	11.0	8.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.0	25.9	20.1
Emulsified Water	scalar	Visual*	>0.2	<b>.2</b> %	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>216	<b>1</b> 444	▲ 522	<b>2</b> 09
Boron	ppm	ASTM D5185(m)	250	7	4	5
Barium	ppm	ASTM D5185(m)	10	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	63	65	66
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	450	978	1023	1073
Calcium	ppm	ASTM D5185(m)	3000	1057	1125	1147
Phosphorus	ppm	ASTM D5185(m)	1150	1019	1017	1127
Zinc	ppm	ASTM D5185(m)	1350	1186	1252	1301
Sulfur	ppm	ASTM D5185(m)	4250	2693	2565	2688
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.1	15.8	15.8
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	15.2	15.3	14.3

WEAR

CONTAMINATION

**FLUID CONDITION** 

NORMAL

**SEVERE** 

ATTENTION

Submitted By: Amanda Cipollone







Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 252 - GTA Hauling CALA Sample No. : GFL0110261 Received : 23 Feb 2024 3668 Weston Road Lab Number North York, ON : 02617578 Tested : 23 Feb 2024 ISO 17025:2017 Accredited Laboratory : 26 Feb 2024 - Kevin Marson CA M9L 1W2 Unique Number : 5734688 Diagnosed Test Package : MOB 1 (Additional Tests: Glycol, KF) Contact: Amanda Cipollone To discuss this sample report, contact Customer Service at 1-800-268-2131. acipollone@gflenv.com Т: Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: Validity of results and interpretation are based on the sample and information as supplied.