

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id FREIGHTLINER 722054 (S/N 1FVHCYFE0NHMS5808) Component Diesel Engine Fluid

SHELL ROTELLA T 15W40 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

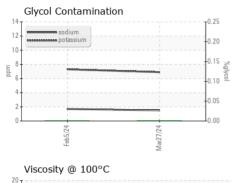
Fluid Condition

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

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109556	GFL0109559	
Sample Date		Client Info		27 Mar 2024	05 Feb 2024	
Machine Age	kms	Client Info		3858	3613	
Oil Age	kms	Client Info		600	600	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT		method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
				ITEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	6	13	
Chromium	ppm	ASTM D5185(m)	>5	0	0	
Nickel	ppm	ASTM D5185(m)	>2	0	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)	>3	0	0	
Aluminum	ppm	ASTM D5185(m)	>30	<1	2	
Lead	ppm	ASTM D5185(m)	>30	0	0	
Copper	ppm	ASTM D5185(m)	>150	<1	<1	
Tin	ppm	ASTM D5185(m)	>5	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	35	158	134	
Barium	ppm	ASTM D5185(m)	0	0	0	
Molybdenum	ppm	ASTM D5185(m)	0	0	0	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)	10	13	14	
Calcium	ppm	ASTM D5185(m)	2340	2150	2200	
Phosphorus	ppm	ASTM D5185(m)	1110	935	950	
Zinc	ppm	ASTM D5185(m)	1210	1106	1131	
Sulfur	ppm	ASTM D5185(m)	3890	2816	2983	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	<1	2	
Sodium	ppm	ASTM D5185(m)	200	2	2	
Potassium		ASTM D5185(m)	>20	7	7	
Glycol	ppm %	ASTM D5185(III) ASTM D7922*	20	0.0	0.0	
INFRA-RED		method	limit/base	current	history1	history2
	0/					
Soot %	%	ASTM D7844*	>3	0.3	0.6	
Nitration	Abs/cm	ASTM D7624*	>20	7.2	8.8	
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.3	22.9	



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

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Laboratory

Sample No.