

OIL ANALYSIS REPORT

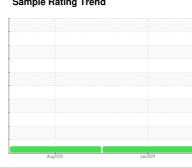
Sample Rating Trend

NORMAL

STERLING 728001 (S/N 2FZHCHBS58AZ67231)

Diesel Engine

SHELL ROTELLA T 15W40 (--- GAL)





DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

			Aug2020	Jan 2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109549	GFL0009075	
Sample Date		Client Info		31 Jan 2024	13 Aug 2020	
Machine Age	hrs	Client Info		16697	14962	
Oil Age	hrs	Client Info		600	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	11	11	
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	
Titanium	ppm	ASTM D5185(m)		0	<1	
Silver	ppm	ASTM D5185(m)	>3	0	<1	
Aluminum	ppm	ASTM D5185(m)	>20	2	1	
Lead	ppm	ASTM D5185(m)	>40	3	3	
Copper	ppm	ASTM D5185(m)	>330	3	26	
Tin	ppm	ASTM D5185(m)	>15	<1	<1	
Antimony	ppm	ASTM D5185(m)		0	<1	
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		history1	history2
Boron	ppm	ASTM D5185(m)	35	4	5	
Barium	ppm	ASTM D5185(m)	0	0	1	
Molybdenum	ppm	ASTM D5185(m)	0	60	3	
Manganese	ppm	ASTM D5185(m)		0	<1	
Magnesium	ppm	ASTM D5185(m)	10	982	36	
Calcium	ppm	ASTM D5185(m)	2340	1120	2242 902	
Phosphorus Zinc	ppm	ASTM D5185(m) ASTM D5185(m)	1110	1017 1206	1020	
Sulfur	ppm	ASTM D5185(m)	3890	2650	3116	
Lithium	ppm	ASTM D5185(m)	3090	<1	<1	
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	25	
Sodium	ppm	ASTM D5185(m)		1	7	
Potassium	ppm	ASTM D5185(m)	>20	<1	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	
Nitration	Abs/cm	ASTM D7624*	>20	8.3	5.9	
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.5	16.1	



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental Inc. - 536 - Fort frances : GFL0109549

: 02613350 : 5722445

Recieved : 05 Feb 2024 : 05 Feb 2024 Diagnosed Diagnostician

: Wes Davis

Fire #174 Hwy 11/71 Fort Frances, ON CA P9A 3M2 Contact: Jodi Holden jholden@gflenv.com T: (807)274-6255

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.