

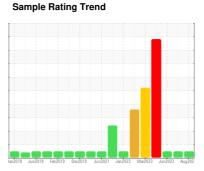
OIL ANALYSIS REPORT



RMR-Trinity LIEBHERR LH50M 1216-96585

Component **Diesel Engine**

DIESEL ENGINE OIL SAE 10W30 (--- GAL)





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

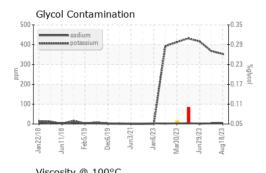
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		DJJ0019888	DJJ0019896	DJJ0019898
Sample Date		Client Info		18 Aug 2023	20 Jul 2023	29 Jun 2023
Machine Age	hrs	Client Info		10683	10527	10477
Oil Age	hrs	Client Info		10527	0	250
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	9	7	8
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		1	3	2
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>125	4	1	2
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	610	856	748
Barium	ppm	ASTM D5185m	10	0	1	3
Molybdenum	ppm	ASTM D5185m	100	1003	1048	1102
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	450	113	114	93
Calcium	ppm	ASTM D5185m	3000	491	516	481
Phosphorus	ppm	ASTM D5185m	1150	52	54	11
Zinc	ppm	ASTM D5185m	1350	34	38	13
Sulfur	ppm	ASTM D5185m	4250	2591	2913	1976
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	12	14	16
Sodium	ppm	ASTM D5185m		4	3	2
Potassium	ppm	ASTM D5185m	>20	353	368	416
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.2
Nitration	Abs/cm	*ASTM D7624		7.0	5.6	7.8
Sulfation	Abs/.1mm	*ASTM D7415		20.8	22.5	22.1
FLUID DEGRADA	TION _	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.6	20.3	23.7
Base Number (BN)	mg KOH/g	ASTM D2896		2.4	3.8	4.1
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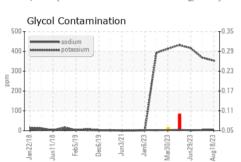
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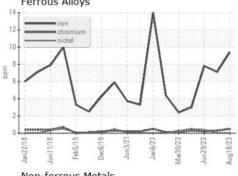
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID DDODEDI			11 11 //		111	1:

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Abnorma			Λ			
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Base Abnormal			1	1		
0			1			
8	1		1	1		
6				/		
4		1 1		1		
Jan22/18	Feb5/19	- 61/9ae	21	23	23	23
2	Jun11/ Feb5/	9	Jun3/2	Jan6/	Mar30/	Jun29/23

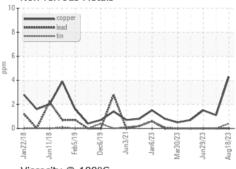
FLUID PROPER	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	10.9	11.4	11.4	10.4

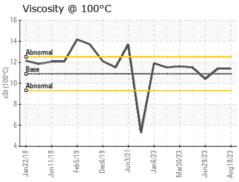


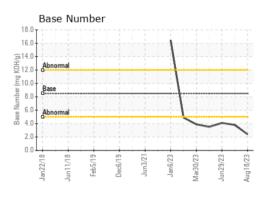
Ferrous Alloys















Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10609140

: DJJ0019888 : 05929193

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Aug 2023 Diagnosed

: 21 Aug 2023 Diagnostician : Doug Bogart

Test Package : CONST (Additional Tests: Glycol, TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

RIVER METALS RECYCLING - DECATUR FACILITY

4301 IVERSON BLVD TRINITY, AL US 35673

Contact: LARRY BARBER larry.barber@rmrecycling.com

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