

WEAR NORMAL CONTAMINATION SEVERE FLUID CONDITION SEVERE

RECOMMENDATION

LIEBHERR R954B MH-4 (S/N 015630-629)

Component Diesel Engine

DURAMAX 15W40 (--- GAL)

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

[MH-4]

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All component wear rates are normal.

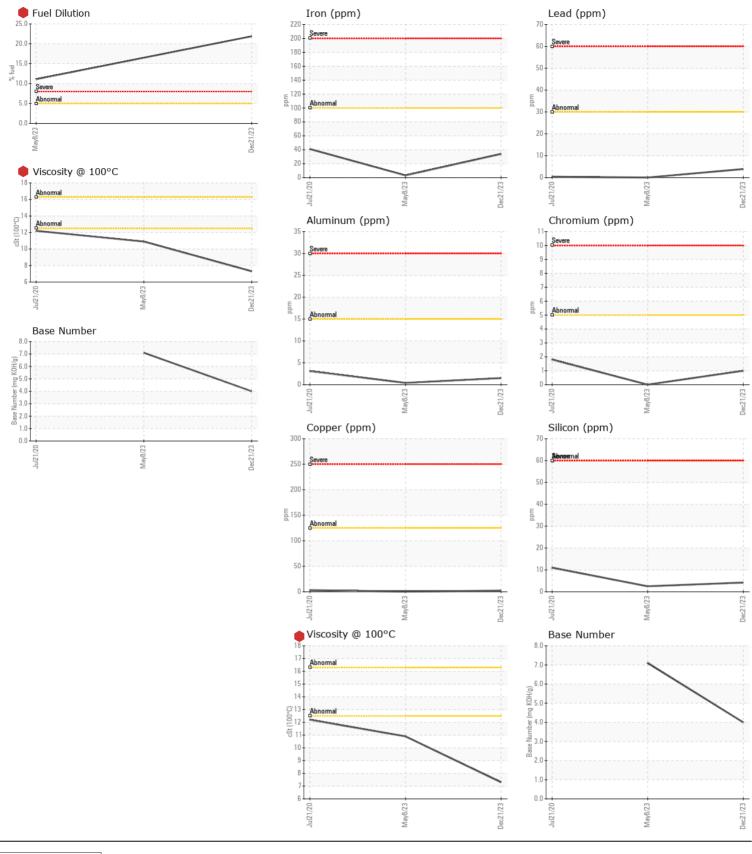
CONTAMINATION

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

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The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

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Sample Date Client Info 21 De 2023 08 May 2023 21 Jul 2020 Machine Age hrs Client Info 12300 11818 11417 Oil Age hrs Client Info 482 401 500 Oil Changed Client Info 482 401 500 Oil Changed Client Info 482 401 500 Oil Changed Client Info Changed Changed Changed Changed Sample Status StM D5185m >5 1 0 2 Nickel ppm ASTM D5185m >5 0 0 0 Titanium ppm ASTM D5185m >3 0 0 -1 Alueninum ppm ASTM D5185m >15 2 <1 3 Copper ppm ASTM D5185m >15 2 <1 3 Visual NONE NONE NONE NONE NONE NONE Velaw scalar "Visual	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age hrs Client Info 12300 11818 11417 Oil Age hrs Client Info 482 401 500 Filter Age hrs Client Info 482 401 500 Oil Changed Client Info Changed Change	Sample Number		Client Info		DC0028811	DC0021536	DC0005258
Oil Age hrs Client Info 482 401 500 Filter Age hrs Client Info 482 401 500 Oil Changed Client Info Changed Changed Changed Changed Changed Sample Status SEVERE SEVERE SEVERE None Anaged Changed Changed Chromium ppm ASTM D5185m >10 0 2 Nickel ppm ASTM D5185m >5 0 0 0 1 39 Silver ppm ASTM D5185m >3 0 0 <1 3 Lead ppm ASTM D5185m >30 4 0 <1 3 Lead ppm ASTM D5185m >5 <1 0 <1 3 Vanadium ppm ASTM D5185m >60 4 2 11 Vanadium ppm ASTM D5185m >60 4 2 11 Vanadium <td< th=""><th>Sample Date</th><th></th><th>Client Info</th><th></th><th>21 Dec 2023</th><th>08 May 2023</th><th>21 Jul 2020</th></td<>	Sample Date		Client Info		21 Dec 2023	08 May 2023	21 Jul 2020
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Zinc ppm ASTM D5185m 689 1013 1061 Sulfur ppm ASTM D5185m 2573 4182 2877 Oxidation Abs/.1mm *ASTM D7414 >25 12.6 8.6 17.4 Base Number (BN) mg KOH/g ASTM D2896 4.0 7.1	Calcium	ppm	ASTM D5185m		1521	2126	1915
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Oxidation Abs/.1mm *ASTM D7414 >25 12.6 8.6 17.4 Base Number (BN) mg KOH/g ASTM D2896 4.0 7.1	Zinc	ppm	ASTM D5185m		689	1013	1061
Base Number (BN) mg KOH/g ASTM D2896 4.0 7.1	Sulfur	ppm	ASTM D5185m		2573	4182	2877
	Oxidation	Abs/.1mm	*ASTM D7414	>25	12.6	8.6	17.4
Visc @ 100°C cSt ASTM D445 (7.3) 10.9 12.2	Base Number (BN)	mg KOH/g	ASTM D2896		4.0	7.1	
	Visc @ 100°C	cSt	ASTM D445		7.3	10.9	12.2



CONSERVIT INC. Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : DC0028811 Recieved : 11 Jan 2024 PO BOX 1517 Lab Number : 06058689 HAGERSTOWN, MD Diagnosed : 15 Jan 2024 Diagnostician : Wes Davis : 10830071 US 21740 Unique Number **Test Package** : MOB 1 (Additional Tests: PercentFuel, TBN) Contact: DON LONG Certificate L2367 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. T: (301)791-0100 F: (301)739-8548 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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