LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 118290-1216 - Diesel Engine

2

<1</p>

ppm

ppm

Sample No: LH0260115

Sodium

Potassium

Oil Type: DIESEL ENGINE OIL SAE 40

PLE INFO	DRMATION			
	LH0260115	LH0158796	LH0158908	LH0158904
	11 Aug 2023	23 Oct 2021	09 Oct 2021	07 Sep 2021
	19366	1980	9990	9490
	0	0	0	0
	Not Changd	Changed	Changed	Changed
	SEVERE	NORMAL	NORMAL	NORMAL
cSt	ON (4.3			
ONDITIO	ON			
		57	53	53
70		0.		
'AMINA	TION			
%	0 0	0	O 0	O 0
%	51	75	63	62
%	40	59	46	46
%	NEG	NEG	NEG	NEG
%	49	<1.0	<1.0	<1.0
ppm	11	O 2	3	3
	cSt % AMINA % % % %	11 Aug 2023 19366 0 Not Changd SEVERE DNDITION CSt	LH0260115 LH0158796 11 Aug 2023 23 Oct 2021 19366 1980 0 0 Not Changd Changed SEVERE NORMAL ONDITION CSt 4.3 13.7 34 57 AMINATION % 0 0 0 % 51 75 % 40 59 % NEG NEG % 49 <1.0	LH0260115 LH0158796 LH0158908 11 Aug 2023 23 Oct 2021 09 Oct 2021 19366 1980 9990 0 0 0 Not Changd Changed Changed SEVERE NORMAL NORMAL DNDITION cSt ● 4.3 ● 13.7 ● 13.5 % 34 57 53 AMINATION % ● 0 ● 0 ● 0 % 51 75 63 % 40 59 46 % NEG NEG NEG NEG % 49 <1.0 <1.0

WEAR METALS								
Iron	ppm	23	O 2	2	O 2			
Copper	ppm	0 <1	O 111	O <1	1			
Lead	ppm	0 <1	3	1	O <1			
Tin	ppm	0	O 0	O <1	O <1			
Aluminum	ppm	2	O 2	O 2	O 2			
Chromium	ppm	4	O <1	O 0	O 0			
Molybdenum	ppm	2	O 0	O <1	 <1			
Nickel	ppm	0 <1	O 0	O <1	<1			
Titanium	ppm	0	<1	O 0	0			
Silver	ppm	0 <1	<1	<1	<1			
Manganese	ppm	0 <1	<1	O 0	O 0			
Vanadium	ppm	<1	0	0	0			

01

0 4

02

ADDITIVES							
Calcium	ppm	1158	O 2214	○ 2074	○ 2300		
Magnesium	ppm	20	0 8	1 3	O 11		
Zinc	ppm	562	O 1113	O 1062	O 1186		
Phosphorus	ppm	522	976	928	O 1057		
Barium	ppm	0 <1	 <1	O	O 0		
Boron	ppm	2	O 1	1	3		





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Diagnosis

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel 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.

Depot:WEY100KENUnique No:5629144Signed:Kevin MarsonReport Date:17 Aug 2023

LIEBHERR

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GRAPHS

