

LIEBHERR

CONSTRUCTION EQUIPMENT



[[US AGG THORNTOWN IN]] LIEBHERR HS885HD 184713 - Diesel

Sample No: LHMC133198
 Oil Type: DIESEL ENGINE OIL SAE 15W40



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 BURR RIDGE, IL
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SAMPLE INFORMATION

Sample Number	LHMC133198	LH0254575	LH0257980	LH0217302
Sample Date	11 Oct 2023	24 Jul 2023	08 May 2023	11 Jul 2022
Machine Hours	11550	11006	10527	8804
Oil Hours	500	500	500	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	13.7	14.0	13.3	13.3
Base Number (BN)	mg KOH/g	8.0	9.0	7.5	11.3
Oxidation (PA)	%	64	63	58	65



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.4
Nitration (PA)	%	73	64	70	70
Sulfation (PA)	%	54	54	53	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	4	2
Sodium	ppm	2	1	3	<1
Potassium	ppm	1	2	1	0



WEAR METALS

Iron	ppm	6	6	9	20
Copper	ppm	<1	2	<1	1
Lead	ppm	0	0	1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	3	1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	80	70	73	67
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1908	1747	1921	1260
Magnesium	ppm	346	432	256	804
Zinc	ppm	1349	1248	1252	1278
Phosphorus	ppm	1109	1022	1035	1043
Barium	ppm	0	0	0	4
Boron	ppm	66	58	109	<1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: LEC0033
 Unique No: 10700726
 Signed: Wes Davis
 Report Date: 19 Oct 2023



GRAPHS

