

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH80M 1213-92590 - Diesel Engine

Sample No: LH06229773

Oil Type: DIESEL ENGINE OIL SAE 5W40



Sample Information

Sample Number	LH06229773	LH0267595	LH0254130	LHMC115814
Sample Date	27 Mar 2024	07 Nov 2023	05 Apr 2023	22 Feb 2021
Machine Hours	11144	10758	9485	7463
Oil Hours	500	0	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

OZINGA BROS INC

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Oil Condition

Visc @ 100°C	cSt	14.4	13.2	13.5	12.7
Base Number (BN)	mg KOH/g	7.1	7.0	7.3	---
Oxidation (PA)	%	55	62	72	84



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.4	0.8	1.3
Nitration (PA)	%	80	76	96	110
Sulfation (PA)	%	53	58	59	73
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	8	14	7
Sodium	ppm	3	0	6	5
Potassium	ppm	6	6	14	5



Wear Metals

Iron	ppm	8	11	54	34
Copper	ppm	20	92	296	20
Lead	ppm	<1	<1	4	5
Tin	ppm	<1	<1	3	<1
Aluminum	ppm	4	3	11	9
Chromium	ppm	<1	<1	2	2
Molybdenum	ppm	8	34	31	1
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	2	<1
Vanadium	ppm	0	0	0	<1



Additives

Calcium	ppm	1390	1430	1289	1549
Magnesium	ppm	680	575	811	673
Zinc	ppm	884	919	969	851
Phosphorus	ppm	774	809	784	758
Barium	ppm	0	9	0	<1
Boron	ppm	47	32	41	24

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: OZIMOKLH
Unique No: 11113266
Signed: Wes Davis
Report Date: 09 Jul 2024



Graphs

