

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 1334-49308 - Diesel Engine

Sample No: LH0172263

Oil Type: LIEBHERR MOTOROIL 5W-30 LOW ASH



SAMPLE INFORMATION

Sample Number	LH0172263	LH0172254	LH0172250	LH0172249
Sample Date	26 Aug 2023	19 Jun 2023	08 Jan 2023	16 Sep 2022
Machine Hours	5537	5000	4500	4252
Oil Hours	0	0	0	0
Oil Changed	Not Changd	N/A	N/A	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	11.4	11.7	12.0	12.3
Base Number (BN)	mg KOH/g	5.0	6.0	7.1	8.4
Oxidation (PA)	%	76	70	59	62



CONTAMINATION

Soot %	%	0.2	0.2	0.1	0.1
Nitration (PA)	%	88	83	78	83
Sulfation (PA)	%	63	61	53	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	5	7
Sodium	ppm	0	2	2	3
Potassium	ppm	6	2	3	4

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.



WEAR METALS

Iron	ppm	23	9	5	6
Copper	ppm	8	5	3	3
Lead	ppm	3	0	2	2
Tin	ppm	1	0	<1	<1
Aluminum	ppm	0	7	<1	1
Chromium	ppm	2	0	<1	<1
Molybdenum	ppm	<1	2	<1	<1
Nickel	ppm	1	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1384	1422	1442	1444
Magnesium	ppm	692	718	667	686
Zinc	ppm	891	910	881	833
Phosphorus	ppm	733	770	729	767
Barium	ppm	<1	0	0	0
Boron	ppm	27	41	57	72

Depot: STABROWI
 Unique No: 10686795
 Signed: Wes Davis
 Report Date: 11 Oct 2023



GRAPHS

