

LIEBHERR

CONSTRUCTION EQUIPMENT



[CGI] LIEBHERR L586 068730 - Diesel Engine

Sample No: LH0285023

Oil Type: DIESEL ENGINE OIL SAE 40



SAMPLE INFORMATION

Sample Number	LH0285023	LH0278809	LH0274389	LH0234775
Sample Date	11 Feb 2024	20 Nov 2023	17 Sep 2023	08 Jul 2022
Machine Hours	8094	6944	6182	591
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.9	13.5	12.3	12.1
Oxidation (PA)	%	77	95	86	206



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	69	81	78	93
Sulfation (PA)	%	60	65	60	111
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.8
Silicon	ppm	8	6	6	11
Sodium	ppm	1	2	4	2
Potassium	ppm	1	0	1	2

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	4	6	4	9
Copper	ppm	2	11	10	142
Lead	ppm	2	7	2	6
Tin	ppm	0	0	0	<1
Aluminum	ppm	2	2	1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	57	59	59	44
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1227	1260	939	1358
Magnesium	ppm	936	951	1083	906
Zinc	ppm	1182	1199	1211	845
Phosphorus	ppm	1011	986	1039	725
Barium	ppm	0	<1	0	34
Boron	ppm	12	14	26	77

Depot: LIEMIS
 Unique No: 5724043
 Signed: Wes Davis
 Report Date: 12 Feb 2024



GRAPHS

