

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L550 73916 - Diesel Engine

Sample No: LH0270167

Oil Type: DIESEL ENGINE OIL SAE 40



SAMPLE INFORMATION

Sample Number	LH0270167	LH0277538	LH0277823	LH0270421
Sample Date	21 Mar 2024	21 Jan 2024	27 Nov 2023	17 Sep 2023
Machine Hours	2258	1515	1059	583
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.3	13.3	13.2	11.7
Oxidation (PA)	%	72	63	76	212



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	74	58	60	98
Sulfation (PA)	%	54	53	58	112
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.4
Silicon	ppm	6	7	6	11
Sodium	ppm	3	1	2	2
Potassium	ppm	3	2	0	5

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	6	5	6	12
Copper	ppm	4	8	41	258
Lead	ppm	0	<1	2	10
Tin	ppm	<1	<1	<1	2
Aluminum	ppm	1	2	1	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	54	56	54	46
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	0	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1011	1105	1120	1375
Magnesium	ppm	963	941	910	939
Zinc	ppm	1172	1160	1114	849
Phosphorus	ppm	966	986	932	718
Barium	ppm	<1	<1	4	33
Boron	ppm	22	5	8	75

Depot: LIEMIS
 Unique No: 5748998
 Signed: Wes Davis
 Report Date: 22 Mar 2024



GRAPHS

