

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 055418-1334 - Diesel Engine

Sample No: LH0276259

Oil Type: SAE 5W30



#### Sample Information

Sample Number	LH0276259	LH0285114	LH0281406	LH0278962
Sample Date	14 May 2024	11 Feb 2024	21 Jan 2024	05 Nov 2023
Machine Hours	14463	13516	13061	12685
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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#### Oil Condition

Visc @ 100°C	cSt	13.2	12.0	14.2	13.7
Oxidation (PA)	%	77	71	65	66



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	73	68	59	60
Sulfation (PA)	%	58	55	54	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	6	7
Sodium	ppm	4	5	4	3
Potassium	ppm	<1	<1	1	0

#### 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. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.



#### Wear Metals

Iron	ppm	4	2	3	3
Copper	ppm	2	2	2	1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	1	2	2	2
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	57	59	57	57
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	1149	895	1067	1146
Magnesium	ppm	937	1068	950	911
Zinc	ppm	1161	1186	1151	1172
Phosphorus	ppm	944	1029	981	950
Barium	ppm	0	0	0	<1
Boron	ppm	8	28	1	3

Depot: CGCHAG  
 Unique No: 5776738  
 Signed: Kevin Marson  
 Report Date: 15 May 2024



### Graphs

