

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 055418-1334 - Diesel Engine

Sample No: LH0296741

Oil Type: SAE 5W30



#### Sample Information

Sample Number	LH0296741	LH0276259	LH0285114	LH0281406
Sample Date	07 Jul 2024	14 May 2024	11 Feb 2024	21 Jan 2024
Machine Hours	15057	14463	13516	13061
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	14.0	13.2	12.0	14.2
Oxidation (PA)	%	77	77	71	65



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	74	73	68	59
Sulfation (PA)	%	57	58	55	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	5	6
Sodium	ppm	2	4	5	4
Potassium	ppm	0	<1	<1	1

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



#### Additives

Calcium	ppm	1056	1149	895	1067
Magnesium	ppm	960	937	1068	950
Zinc	ppm	1214	1161	1186	1151
Phosphorus	ppm	959	944	1029	981
Barium	ppm	0	0	0	0
Boron	ppm	4	8	28	1

Depot: CGCHAG  
 Unique No: 5811715  
 Signed: Kevin Marson  
 Report Date: 09 Jul 2024



### Graphs

