

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 055418-1334 - Diesel Engine

Sample No: LH0281406

Oil Type: SAE 5W30



SAMPLE INFORMATION

Sample Number	LH0281406	LH0278962	LH0270254	LH0274427
Sample Date	21 Jan 2024	05 Nov 2023	25 Sep 2023	15 Aug 2023
Machine Hours	13061	12685	12214	11526
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.2	13.7	13.2	12.1
Oxidation (PA)	%	65	66	78	97



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	59	60	71	87
Sulfation (PA)	%	54	54	58	68
Glycol	%	NEG	NEG	NEG	0.0
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	6	6
Sodium	ppm	4	3	2	8
Potassium	ppm	1	0	1	11

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	3	3	4	5
Copper	ppm	2	1	2	2
Lead	ppm	<1	<1	2	4
Tin	ppm	0	0	0	<1
Aluminum	ppm	2	2	<1	1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	57	57	59	57
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	<1	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1067	1146	1104	993
Magnesium	ppm	950	911	959	1028
Zinc	ppm	1151	1172	1178	1159
Phosphorus	ppm	981	950	976	986
Barium	ppm	0	<1	<1	0
Boron	ppm	1	3	8	17

Depot: CGCHAG
Unique No: 5711334
Signed: Kevin Marson
Report Date: 23 Jan 2024



GRAPHS

