

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R936 048753-1780 - Diesel Engine

Sample No: LH0220965

Oil Type: DIESEL ENGINE OIL SAE 5W30



Sample Information

Sample Number	LH0220965	---	---	---
Sample Date	18 Apr 2024	---	---	---
Machine Hours	1977	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

LIEBHERR EQUIPMENT SOURCE

4100 CHESTNUT AVENUE
NEWPORT NEWS, VA
US 23607

Contact: LUKE APPLEBY
Lucas.Appleby@liebherr.com

T:
F: (757)298-8700



Oil Condition

Visc @ 100°C	cSt	12.9	---	---	---
Base Number (BN)	mg KOH/g	6.5	---	---	---
Oxidation (PA)	%	88	---	---	---

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



Contamination

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	91	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	8	---	---	---
Sodium	ppm	3	---	---	---
Potassium	ppm	4	---	---	---



Wear Metals

Iron	ppm	8	---	---	---
Copper	ppm	5	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	3	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	4	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---



Additives

Calcium	ppm	1687	---	---	---
Magnesium	ppm	682	---	---	---
Zinc	ppm	900	---	---	---
Phosphorus	ppm	787	---	---	---
Barium	ppm	2	---	---	---
Boron	ppm	135	---	---	---

Depot: LIEBHERRUS
Unique No: 11004548
Signed: Don Baldrige
Report Date: 01 May 2024



Graphs

