

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 1761-75959 - Diesel Engine

Sample No: LHMC132855
 Oil Type: LIEBHERR 5W40



Sample Information

Sample Number	LHMC132855	---	---	---
Sample Date	16 May 2024	---	---	---
Machine Hours	758	---	---	---
Oil Hours	400	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ATTENTION	---	---	---

USG
 86 PPL RD
 DANVILLE, PA
 US 17821
 Contact: Service Manager



Oil Condition

Visc @ 100°C	cSt	11.8	---	---	---
Base Number (BN)	mg KOH/g	14.7	---	---	---
Oxidation (PA)	%	50	---	---	---

T:
 F:



Contamination

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	84	---	---	---
Sulfation (PA)	%	44	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	1.1	---	---	---
Silicon	ppm	15	---	---	---
Sodium	ppm	4	---	---	---
Potassium	ppm	2	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. No other contaminants were detected in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



Wear Metals

Iron	ppm	11	---	---	---
Copper	ppm	11	---	---	---
Lead	ppm	1	---	---	---
Tin	ppm	2	---	---	---
Aluminum	ppm	4	---	---	---
Chromium	ppm	1	---	---	---
Molybdenum	ppm	5	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---



Additives

Calcium	ppm	5441	---	---	---
Magnesium	ppm	108	---	---	---
Zinc	ppm	1640	---	---	---
Phosphorus	ppm	1452	---	---	---
Barium	ppm	2	---	---	---
Boron	ppm	410	---	---	---

Depot: USGDANLH
 Unique No: 11046630
 Signed: Sean Felton
 Report Date: 29 May 2024



Graphs

