

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 1253-121539 - Swing Drive

Sample No: LH0213361

Oil Type: GEAR OIL LS 80W90



KEYSTONE RAIL RECOVERY
70 MARYLAND AVE
JERSEY SHORE, NJ
US 17740
Contact: Service Manager



SAMPLE INFORMATION

Sample Number	LH0213361	LH0213333	---	---
Sample Date	21 Aug 2023	08 Sep 2022	---	---
Machine Hours	3000	1000	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	SEVERE	---	---



OIL CONDITION

Visc @ 40°C	cSt	159	211	---	---
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CONTAMINATION

Water	%	---	1.99	---	---
Silicon	ppm	7	4	---	---
Sodium	ppm	2	5	---	---
Potassium	ppm	<1	1	---	---



WEAR METALS

Iron	ppm	513	826	---	---
Copper	ppm	149	47	---	---
Lead	ppm	<1	1	---	---
Tin	ppm	1	2	---	---
Aluminum	ppm	0	6	---	---
Chromium	ppm	4	7	---	---
Molybdenum	ppm	<1	1	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	4	8	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	486	13	---	---
Magnesium	ppm	0	3	---	---
Zinc	ppm	185	70	---	---
Phosphorus	ppm	1351	2134	---	---
Barium	ppm	0	0	---	---
Boron	ppm	213	18	---	---

T:
F:

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: KEYJER
Unique No: 10616388
Signed: Don Baldrige
Report Date: 23 Aug 2023



GRAPHS

