

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH110 1227-155752 - Swing Drive

Sample No: LH0280586

Oil Type: SAE 30W



SAMPLE INFORMATION

Sample Number	LH0280586	LH0280575	LH0280564	---
Sample Date	19 Mar 2024	20 Feb 2024	11 Jan 2024	---
Machine Hours	1544	1022	507	---
Oil Hours	0	0	0	---
Oil Changed	Not Changd	Changed	Not Changd	---
Sample Status	ATTENTION	ATTENTION	NORMAL	---

KINDER MORGAN

4301 IVERSON

TRINITY, AL

US 35601

Contact: CHIP OAKES



OIL CONDITION

Visc @ 40°C	cSt	176	179	180	---
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T: (256)350-0006

F: (256)355-5250



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	6	7	5	---
Sodium	ppm	3	3	4	---
Potassium	ppm	2	<1	2	---

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 oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.



WEAR METALS

Iron	ppm	265	297	203	---
Copper	ppm	118	119	67	---
Lead	ppm	<1	1	<1	---
Tin	ppm	11	8	5	---
Aluminum	ppm	2	1	1	---
Chromium	ppm	1	<1	<1	---
Molybdenum	ppm	1	0	0	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	2	2	2	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	98	119	46	---
Magnesium	ppm	0	<1	2	---
Zinc	ppm	45	39	16	---
Phosphorus	ppm	2091	2188	1879	---
Barium	ppm	1	3	4	---
Boron	ppm	9	6	5	---

Depot: KINTRI

Unique No: 10950647

Signed: Don Baldrige

Report Date: 01 Apr 2024



GRAPHS

