

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH110 1227-155752 - Front Right Wheel Hub

Sample No: LH0280588

Oil Type: GEAR OIL SAE 80W90



KINDER MORGAN
4301 IVERSON
TRINITY, AL
US 35601
Contact: CHIP OAKES

T: (256)350-0006
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SAMPLE INFORMATION

Sample Number	LH0280588	LH0280577	LH0280566	---
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	ABNORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	122	173	173	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	4	10	8	---
Sodium	ppm	0	3	4	---
Potassium	ppm	2	0	2	---



WEAR METALS

Iron	ppm	23	46	32	---
Copper	ppm	<1	0	0	---
Lead	ppm	<1	0	0	---
Tin	ppm	1	0	<1	---
Aluminum	ppm	1	<1	<1	---
Chromium	ppm	<1	0	0	---
Molybdenum	ppm	2	0	0	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	1	1	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	187	132	152	---
Magnesium	ppm	6	0	3	---
Zinc	ppm	96	13	25	---
Phosphorus	ppm	427	1448	1273	---
Barium	ppm	0	0	<1	---
Boron	ppm	1	4	5	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

Depot: KINTRI
Unique No: 10950661
Signed: Don Baldrige
Report Date: 01 Apr 2024



GRAPHS

