

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH110 1227-155752 - Splitter Box

Sample No: LH0280585

Oil Type: SAE 30W



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

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Sample Information

Sample Number	LH0280585	LH0280585	LH0280574	LH0280563
Sample Date	18 Apr 2024	19 Mar 2024	20 Feb 2024	11 Jan 2024
Machine Hours	1980	1544	1022	507
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	ATTENTION	ATTENTION	ATTENTION	NORMAL



Oil Condition

Visc @ 40°C	cSt	143	163	173	181



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	1	8	2
Sodium	ppm	2	4	4	5
Potassium	ppm	2	2	<1	2



Wear Metals

Iron	ppm	14	20	26	10
Copper	ppm	1	2	6	0
Lead	ppm	0	<1	2	0
Tin	ppm	0	1	<1	<1
Aluminum	ppm	<1	<1	2	<1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	0	<1	0	0
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



Additives

Calcium	ppm	262	179	80	47
Magnesium	ppm	1	<1	<1	3
Zinc	ppm	119	98	40	22
Phosphorus	ppm	1970	2180	2049	1902
Barium	ppm	0	0	0	<1
Boron	ppm	0	1	4	<1

Diagnosis

The oil change at the time of sampling has been noted. 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.

Depot: KINTRI
Unique No: 11031838
Signed: Don Baldrige
Report Date: 17 May 2024



Graphs

