

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH110 155976-1227 - Front Right Wheel Hub

Sample No: LH0267256

Oil Type: GEAR OIL SAE 80W90



KINDER MORGAN
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Sample Information

Sample Number	LH0267256	LH0267552	LH0267535	LH0280577
Sample Date	08 Jun 2024	12 May 2024	18 Apr 2024	23 Feb 2024
Machine Hours	2430	1951	1623	995
Oil Hours	479	956	628	0
Oil Changed	Not Changd	Changed	Not Changd	Changed
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	101	120	119	173



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	9	4	3	12
Sodium	ppm	2	5	0	3
Potassium	ppm	1	2	<1	1



Wear Metals

Iron	ppm	18	28	22	41
Copper	ppm	<1	<1	0	2
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	2	2	<1	1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	3	2	1	0
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	0	<1	<1	2
Vanadium	ppm	<1	<1	0	0



Additives

Calcium	ppm	335	161	187	142
Magnesium	ppm	64	6	5	2
Zinc	ppm	229	85	108	21
Phosphorus	ppm	501	366	454	1582
Barium	ppm	0	0	0	0
Boron	ppm	12	<1	0	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 lower than normal. Confirm oil type.

Depot: KINTRI
 Unique No: 11089055
 Signed: Don Baldrige
 Report Date: 23 Jun 2024

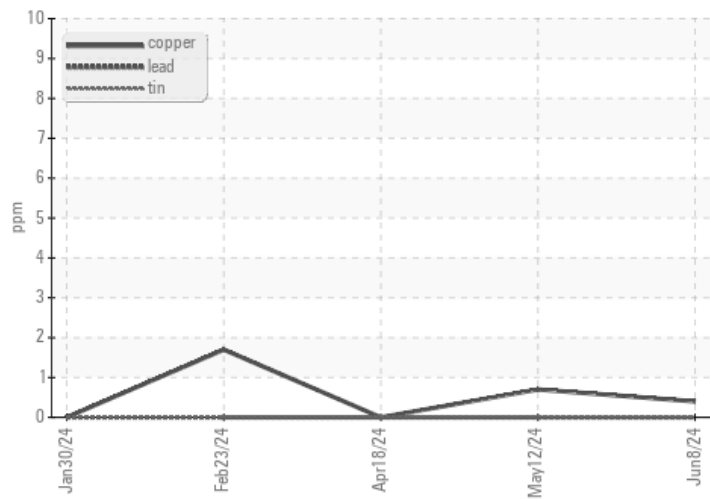


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

