

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH110 155976-1227 - Swing Drive

Sample No: LH0267257

Oil Type: SAE 30W



KINDER MORGAN
 4301 IVERSON
 TRINITY, AL
 US 35601
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Sample Information

Sample Number	LH0267257	LH0267553	LH0267530	LH0280575
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	ATTENTION	ATTENTION	NORMAL



Oil Condition

Visc @ 40°C	cSt	91.9	108	112	182



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	5	2	7
Sodium	ppm	1	4	0	3
Potassium	ppm	<1	2	<1	2



Wear Metals

Iron	ppm	17	106	70	242
Copper	ppm	20	81	37	108
Lead	ppm	0	<1	0	<1
Tin	ppm	<1	2	<1	8
Aluminum	ppm	2	2	<1	2
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	3	6	1	0
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	<1	<1	2
Vanadium	ppm	<1	<1	0	0



Additives

Calcium	ppm	196	422	197	54
Magnesium	ppm	37	29	6	2
Zinc	ppm	156	243	119	33
Phosphorus	ppm	393	621	457	2364
Barium	ppm	0	0	0	2
Boron	ppm	8	18	0	5

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. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: KINTRI
 Unique No: 11089064
 Signed: Don Baldrige
 Report Date: 23 Jun 2024

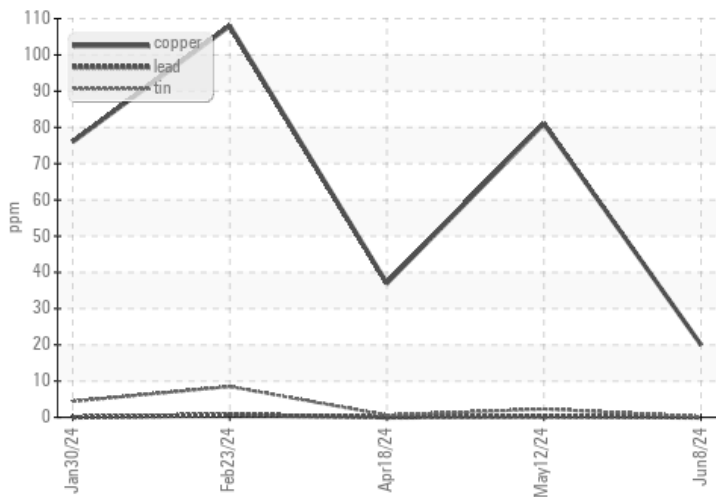


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

