

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH80M 1218-157090 - Swing Drive

Sample No: LH0267072

Oil Type: SAE 30W



KINDER MORGAN
 4301 IVERSON
 TRINITY, AL
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Sample Information

Sample Number	LH0267072	LH0282875	LH0282886	LH0282897
Sample Date	10 Jun 2024	18 May 2024	19 Apr 2024	19 Mar 2024
Machine Hours	2008	1559	997	545
Oil Hours	1035	0	0	0
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION



Oil Condition

Visc @ 40°C	cSt	87.0	94.2	174	185



Contamination

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



Wear Metals

Iron	ppm	251	93	173	135
Copper	ppm	130	81	77	38
Lead	ppm	0	0	<1	0
Tin	ppm	1	<1	3	3
Aluminum	ppm	2	2	<1	0
Chromium	ppm	3	1	<1	<1
Molybdenum	ppm	3	5	<1	1
Nickel	ppm	1	<1	<1	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	1	<1	2	2
Vanadium	ppm	0	<1	0	<1



Additives

Calcium	ppm	284	190	192	34
Magnesium	ppm	37	34	7	0
Zinc	ppm	180	131	85	13
Phosphorus	ppm	538	474	2234	2102
Barium	ppm	0	0	0	0
Boron	ppm	7	6	8	4

Diagnosis

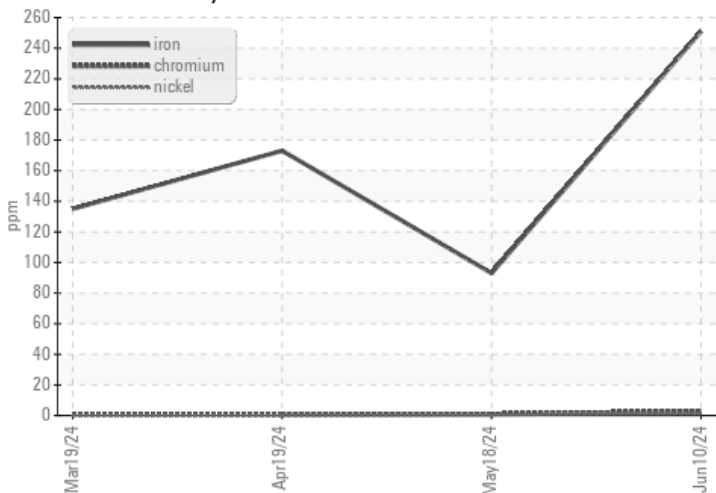
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: KINTRI
 Unique No: 11089062
 Signed: Don Baldrige
 Report Date: 23 Jun 2024

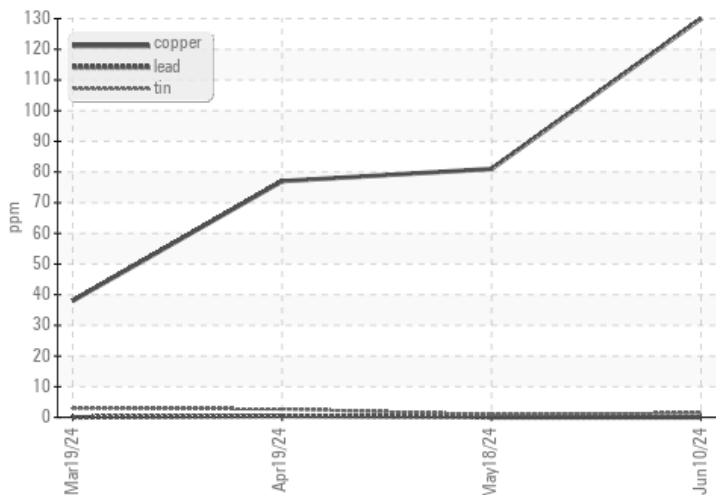


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

