

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH80M 1218-157090 - Rear Differential

Sample No: LH0267070

Oil Type: GEAR OIL SAE 80W90



KINDER MORGAN
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Sample Information

Sample Number	LH0267070	LH0282871	LH0282882	LH0282893
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	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	84.2	89.2	145	139



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	7	6	11	10
Sodium	ppm	0	2	2	4
Potassium	ppm	1	2	3	<1



Wear Metals

Iron	ppm	46	29	41	33
Copper	ppm	23	14	15	11
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	<1	2
Aluminum	ppm	2	1	<1	<1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	2	4	0	1
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	2	1
Vanadium	ppm	0	<1	0	<1



Additives

Calcium	ppm	161	180	127	186
Magnesium	ppm	29	30	5	<1
Zinc	ppm	131	122	28	34
Phosphorus	ppm	636	532	1532	1503
Barium	ppm	0	0	1	0
Boron	ppm	6	6	5	6

Diagnosis

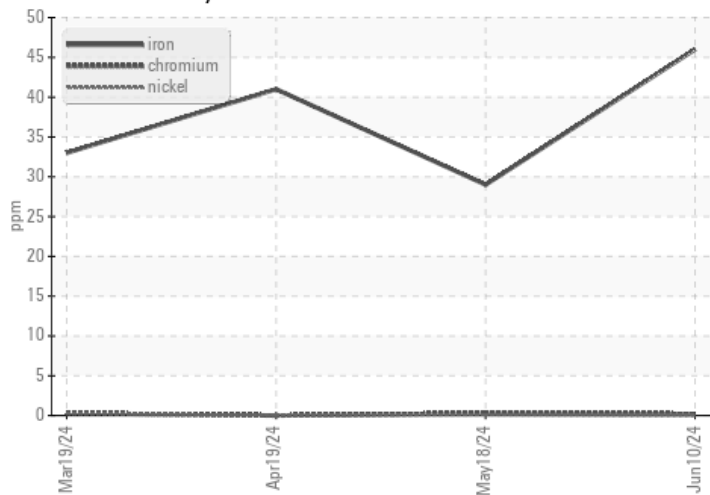
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

Depot: KINTRI
 Unique No: 11089060
 Signed: Don Baldrige
 Report Date: 23 Jun 2024

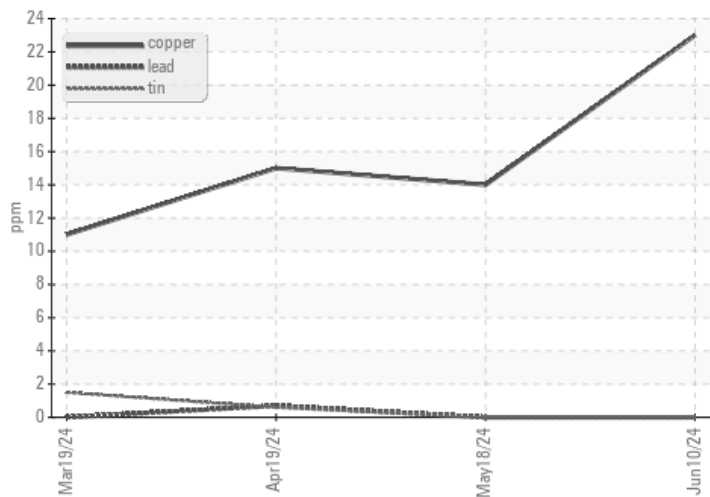


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

