

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH110 1227-155752 - Rear Differential

Sample No: LH0267547

Oil Type: GEAR OIL SAE 80W90



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

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Sample Information

Sample Number	LH0267547	LH0280582	LH0280582	LH0280571
Sample Date	20 May 2024	18 Apr 2024	19 Mar 2024	20 Feb 2024
Machine Hours	2578	1980	1544	1022
Oil Hours	547	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	NORMAL



Oil Condition

Visc @ 40°C	cSt	80.0	97.0	103	149



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	7	5	4	8
Sodium	ppm	2	<1	1	2
Potassium	ppm	1	0	<1	0



Wear Metals

Iron	ppm	33	47	38	61
Copper	ppm	9	14	10	27
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	1	0
Aluminum	ppm	5	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	5	1	2	<1
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	1	<1	2
Vanadium	ppm	<1	0	<1	<1



Additives

Calcium	ppm	242	178	172	110
Magnesium	ppm	45	4	3	0
Zinc	ppm	164	101	90	23
Phosphorus	ppm	352	471	467	1459
Barium	ppm	0	0	0	<1
Boron	ppm	8	0	2	6

Diagnosis

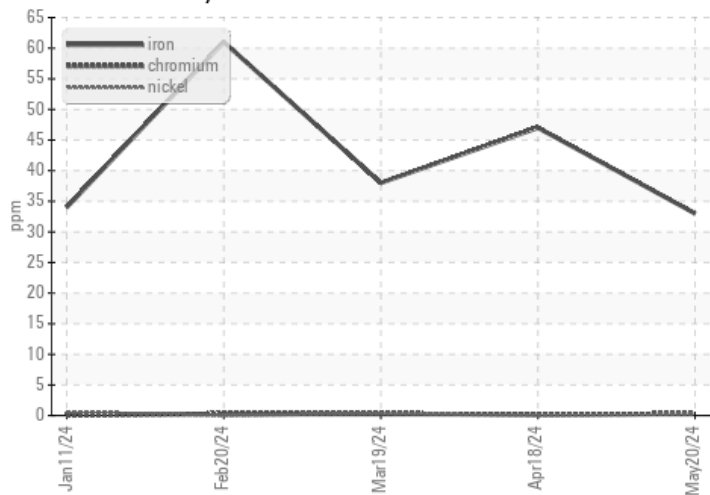
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type. The condition of the oil is acceptable for the time in service.

Depot: KINTRI
Unique No: 11049362
Signed: Don Baldrige
Report Date: 30 May 2024

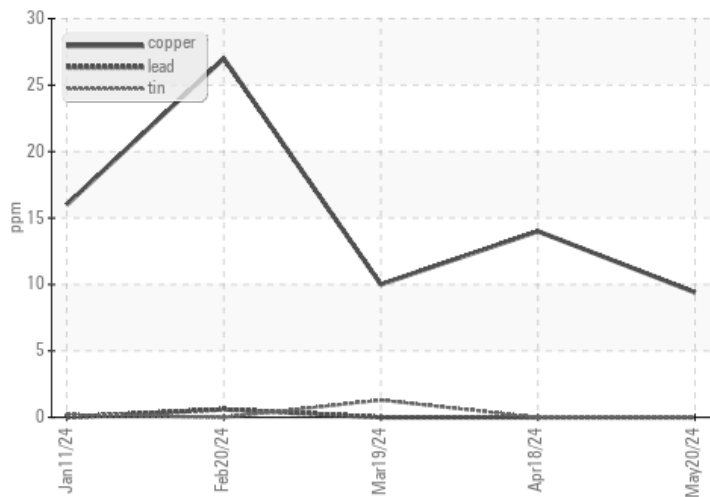


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

