

LIEBHERR

CONSTRUCTION EQUIPMENT



[[AZCON]] LIEBHERR A934C 038332-1006 - Front Right Wheel

Sample No: LH0253870

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0253870	LH0253876	VCE104381	DJJ005770
Sample Date	11 Aug 2023	11 Aug 2023	01 May 2019	23 Jan 2013
Machine Hours	13950	13950	13156	7377
Oil Hours	0	0	0	1000
Oil Changed	Not Chngd	Not Chngd	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	160	183	127	147.8
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CONTAMINATION

Silicon	ppm	8	3	3	2
Sodium	ppm	12	4	6	5
Potassium	ppm	11	3	19	6



WEAR METALS

Iron	ppm	365	57	170	640
Copper	ppm	5	4	6	8
Lead	ppm	<1	0	2	1
Tin	ppm	0	<1	0	0
Aluminum	ppm	2	1	<1	<1
Chromium	ppm	2	<1	1	2
Molybdenum	ppm	0	0	0	0
Nickel	ppm	1	<1	2	1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	4	1	3	7
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	35	29	11	24
Magnesium	ppm	8	1	8	1
Zinc	ppm	36	31	18	60
Phosphorus	ppm	1446	2091	620	1026
Barium	ppm	2	2	0	0
Boron	ppm	13	30	5	23

Diagnosis

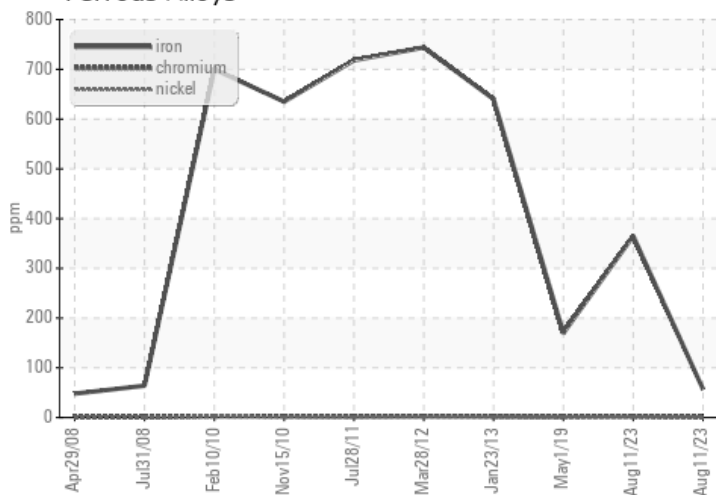
Resample at the next service interval to monitor. NOTE: one of two samples received with same ID and sampling date. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10635468
 Signed: Don Baldrige
 Report Date: 10 Sep 2023

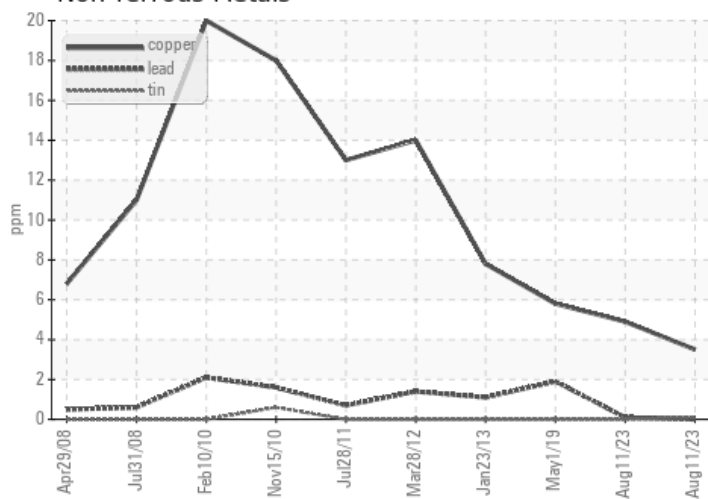


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

