

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A904 052442-1071 - Front Left Wheel Hub

Sample No: LH0268146

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0268146	LHMC84065	LHMC84185	LHMC88708
Sample Date	04 Mar 2024	13 Dec 2017	01 May 2017	02 Jun 2016
Machine Hours	14220	4318	3069	2020
Oil Hours	1000	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	N/A
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ABNORMAL

SCRAP INTERNATIONAL

940 150TH ST
HAMMOND, IN
US 46327
Contact: RICK BARLAGE



OIL CONDITION

Visc @ 40°C	cSt	143	69.56	69.33	70.22
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T: (219)689-0412
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	5	10	13	13
Sodium	ppm	2	15	17	16
Potassium	ppm	2	3	3	3

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	87	72	76	53
Copper	ppm	8	47	53	40
Lead	ppm	3	3	2	2
Tin	ppm	1	<1	3	0
Aluminum	ppm	3	<1	<1	1
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	1	0	0	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	1	2	2	1
Vanadium	ppm	<1	0	0	0



ADDITIVES

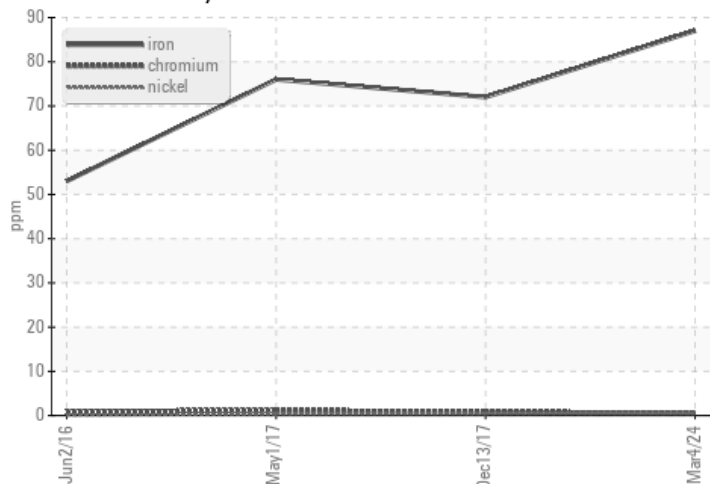
Calcium	ppm	168	3376	3334	3472
Magnesium	ppm	6	8	10	7
Zinc	ppm	61	1270	1274	1398
Phosphorus	ppm	1024	1099	1220	1101
Barium	ppm	1	1	1	<1
Boron	ppm	90	89	88	96

Depot: SCRHAM
Unique No: 10943044
Signed: Jonathan Hester
Report Date: 28 Mar 2024

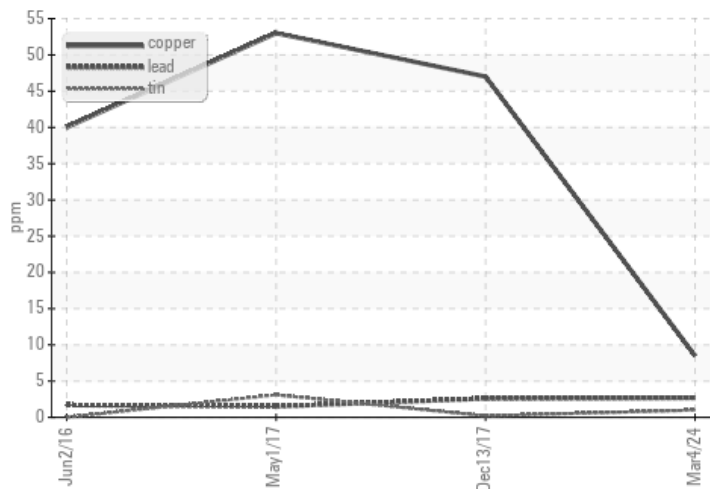


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

