

LIEBHERR

CONSTRUCTION EQUIPMENT



[LIEBHERR] LIEBHERR A934CHD 062713-1419 - Front Different

Sample No: LH0229489
 Oil Type: SUPER S 80W90 LS



METAL RECYCLING SERVICES - GASTONIA
 5401 S YORK HWY
 GASTONIA, NC
 US 28052
 Contact: RYAN BOWDEN



SAMPLE INFORMATION

Sample Number	LH0229489	DJJ0011192	LH0141630	DJJ028824
Sample Date	12 Jul 2023	09 Feb 2023	06 Oct 2020	05 Dec 2017
Machine Hours	12515	12363	4238	7510
Oil Hours	500	1000	0	1000
Oil Changed	Not Changd	Not Changd	Changed	N/A
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	98.6	101	101	135.4
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T:
 F: (704)864-9863



CONTAMINATION

Silicon	ppm	4	4	2	1
Sodium	ppm	0	6	0	<1
Potassium	ppm	3	2	<1	0

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	15	9	18	11
Copper	ppm	15	11	31	14
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	0	<1	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	3	3	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

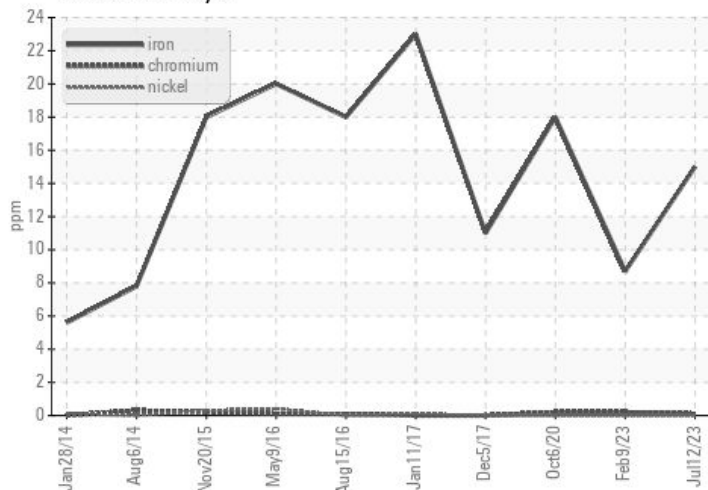
Calcium	ppm	113	99	13	19
Magnesium	ppm	11	10	1	2
Zinc	ppm	83	93	19	20
Phosphorus	ppm	345	282	1271	487
Barium	ppm	0	1	<1	0
Boron	ppm	0	12	313	26

Depot: METGAS
 Unique No: 10562966
 Signed: Don Baldrige
 Report Date: 20 Jul 2023

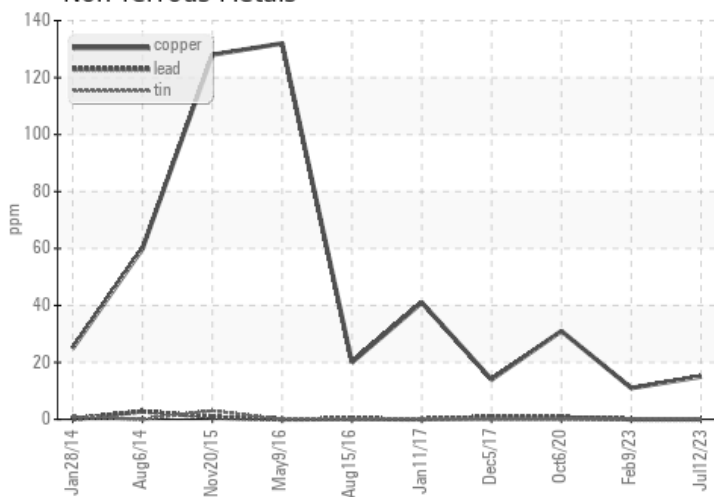


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

