

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [LIEBHERR] LIEBHERR A934CHD 062713-1419 - Front Right Wh

Sample No: LH0229495

Oil Type: SUPER S 80W90 LS



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

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### SAMPLE INFORMATION

Sample Number	LH0229495	DJJ0011193	DJJ0000905	DJJ0000831
Sample Date	12 Jul 2023	09 Feb 2023	09 Feb 2021	19 Nov 2019
Machine Hours	12515	12363	10623	9434
Oil Hours	500	1000	0	500
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL



### OIL CONDITION

Visc @ 40°C	cSt	121	110	121	112
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### CONTAMINATION

Water	%	---	0.381	---	---
Silicon	ppm	4	7	2	2
Sodium	ppm	<1	4	1	2
Potassium	ppm	3	2	2	<1



### WEAR METALS

Iron	ppm	43	72	52	44
Copper	ppm	16	14	15	44
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	1	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	18	40	<1	1
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	2	1	1	2
Vanadium	ppm	0	0	0	0



### ADDITIVES

Calcium	ppm	485	1004	25	32
Magnesium	ppm	17	24	7	2
Zinc	ppm	346	590	18	34
Phosphorus	ppm	571	717	627	330
Barium	ppm	0	1	0	0
Boron	ppm	25	75	16	11

### Diagnosis

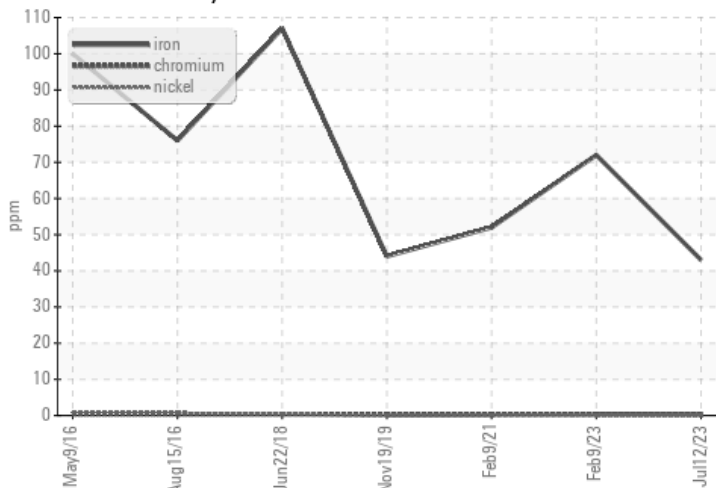
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: METGAS  
Unique No: 10562968  
Signed: Don Baldrige  
Report Date: 20 Jul 2023

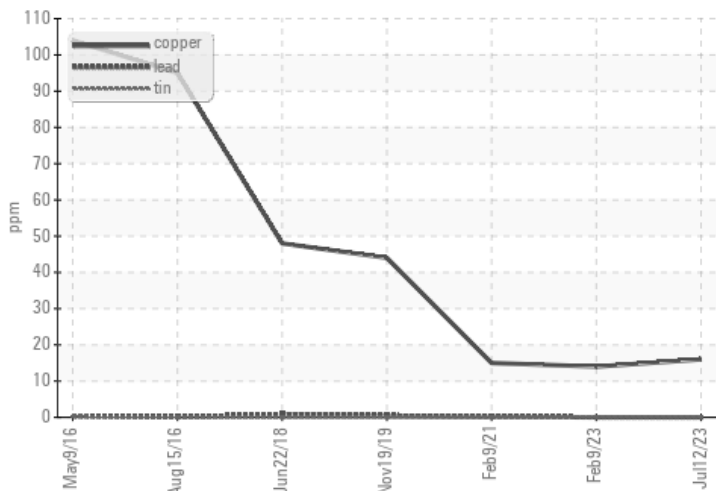


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

