

LIEBHERR

CONSTRUCTION EQUIPMENT



[LIEBHERR] LIEBHERR A934CHD 062713-1419 - Rear Different

Sample No: LH0229491
 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	LH0229491	DJJ0011186	DJJ0011065	DJJ019946
Sample Date	12 Jul 2023	09 Feb 2023	01 Sep 2021	11 Jan 2017
Machine Hours	12515	12363	10921	6436
Oil Hours	0	1000	0	1000
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ATTENTION	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	104	101	75.6	134.6
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T:
 F: (704)864-9863



CONTAMINATION

Water	%	0.602	0.718	---	---
Silicon	ppm	6	6	5	4
Sodium	ppm	<1	5	3	7
Potassium	ppm	3	2	3	5

Diagnosis

We advise that you check for the source of water entry. Resample at the next service interval to monitor. All component wear rates are normal. Appearance is hazy. There is a moderate concentration of water present in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	65	72	30	325
Copper	ppm	11	9	57	54
Lead	ppm	0	2	1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	2	0	1	2
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	10	11	34	<1
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	2	1	3	5
Vanadium	ppm	0	0	0	0



ADDITIVES

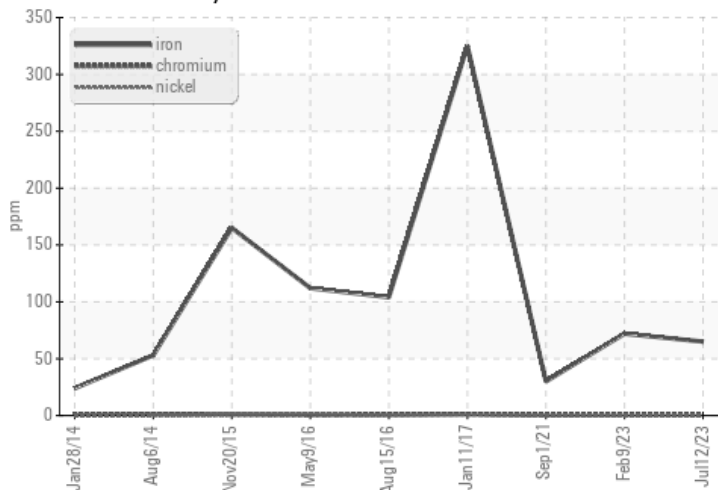
Calcium	ppm	333	287	1716	30
Magnesium	ppm	13	14	369	3
Zinc	ppm	211	186	1015	61
Phosphorus	ppm	519	477	943	1118
Barium	ppm	0	2	0	0
Boron	ppm	11	38	57	74

Depot: METGAS
 Unique No: 10562949
 Signed: Don Baldrige
 Report Date: 20 Jul 2023

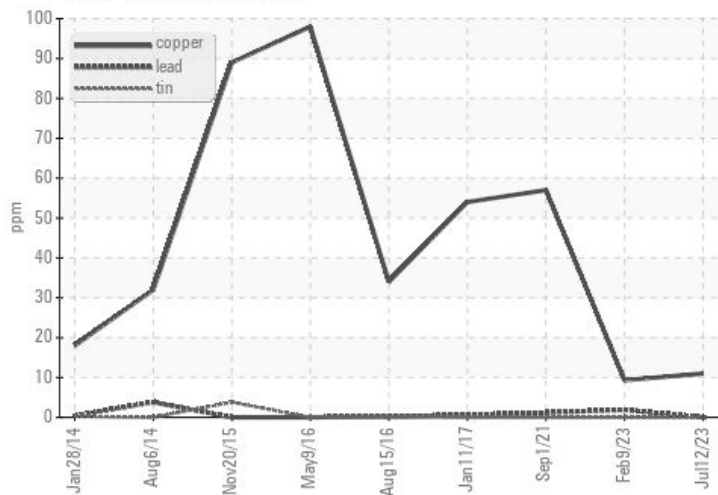


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

