LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR L566 1332-62108 - Hydraulic System

Sample No: LH0264011

Oil Type: CHEVRON RANDO HD 46



OILCO	NDITION				
Visc @ 40°C	cSt	55.9	○ 48.2	O 45.4	48.1
Acid Number (AN)	mg KOH/g	0.37	0.40	0.51	0.69

CONTAMINATION							
Water	%			0.296	1.09		
Particles >4µm		16422	9946	1003			
Particles >6µm		1331	O 707	546			
Particles >14µm		31	27	93			
ISO 4406:1999 (c)		21/18/12	20/17/12	17/16/14			
Silicon	ppm	○ <1	O 2	<1	0		
Sodium	ppm	<1	O <1	O 0	O 2		
Potassium	ppm	() <1	0	0 1	0		

WEA	R META	LS			
Iron	ppm	4	O 7	1 3	O 15
Copper	ppm	○ <1	O 2	o 5	0 8
Lead	ppm	2	O 1	4	6
Tin	ppm	○ <1	O 0	0	0
Aluminum	ppm	<1	O <1	O 0	O <1
Chromium	ppm	○ <1	O 4	3	0 2
Molybdenum	ppm	3	3	O 2	3
Nickel	ppm	0	0	O 0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	O <1	O <1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES					
Calcium	ppm	148	O 164	194	314
Magnesium	ppm	24	20	O 14	23
Zinc	ppm	446	461	471	514
Phosphorus	ppm	360	○ 372	○ 359	431
Barium	ppm	0	O 0	O 0	0
Boron	ppm	3	3	O <1	<1



ALTER SCRAP 1640 BRUCE STREET MILWUAKEE, WI US 53227

Contact: JEFF KOENIGS

T: 541-8700 F: (414)541-1892

Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

Depot: ALTMILWI
Unique No: 10630761
Signed: Don Baldridge
Report Date: 05 Sep 2023

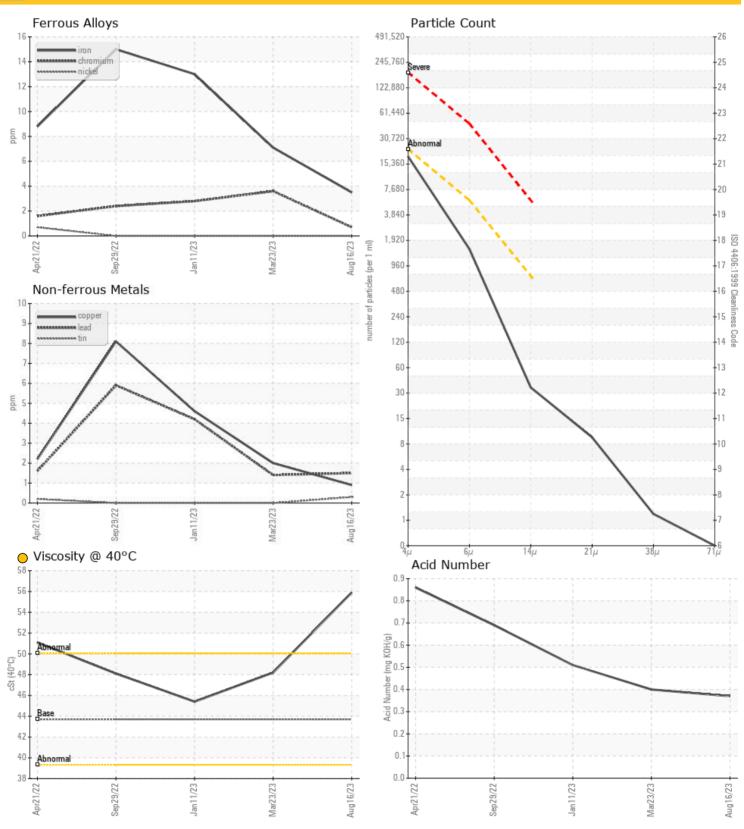
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GRAPHS



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Submitted By: ?