

LIEBHERR

CONSTRUCTION EQUIPMENT



[ELG] LIEBHERR A924C 036737-1049 - Hydraulic System

Sample No: LH

Oil Type: AW HYDRAULIC OIL ISO 46



ELG Canada

4375 CORPORATE DRIVE
BURLINGTON, ON
CA L7L 5P7
Contact: Service Manager

T:
F: (905)335-9687



SAMPLE INFORMATION

Sample Number	LH	LH0086808	LH0083243	LH0078483
Sample Date	14 Mar 2024	12 Dec 2014	29 Aug 2014	20 Dec 2013
Machine Hours	17745	11613	11116	9922
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	31.9	43.2	41.2	39.0
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2908	11402	9028	11117
Particles >6µm		374	2281	1581	927
Particles >14µm		14	118	76	34
ISO 4406:1999 (c)		19/16/11	21/18/14	20/18/13	21/17/12
Silicon	ppm	<1	<1	1	1
Sodium	ppm	<1	1	2	4
Potassium	ppm	2	<1	<1	<1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	3	14	34	58
Copper	ppm	<1	2	5	8
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	<1	<1	<1	1
Chromium	ppm	<1	6	12	13
Molybdenum	ppm	3	0	0	0
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	143	154	200	325
Magnesium	ppm	24	<1	1	2
Zinc	ppm	436	346	344	373
Phosphorus	ppm	379	263	269	301
Barium	ppm	0	0	<1	<1
Boron	ppm	5	<1	0	<1

Depot: STR437BUR
Unique No: 5747499
Signed: Kevin Marson
Report Date: 18 Mar 2024

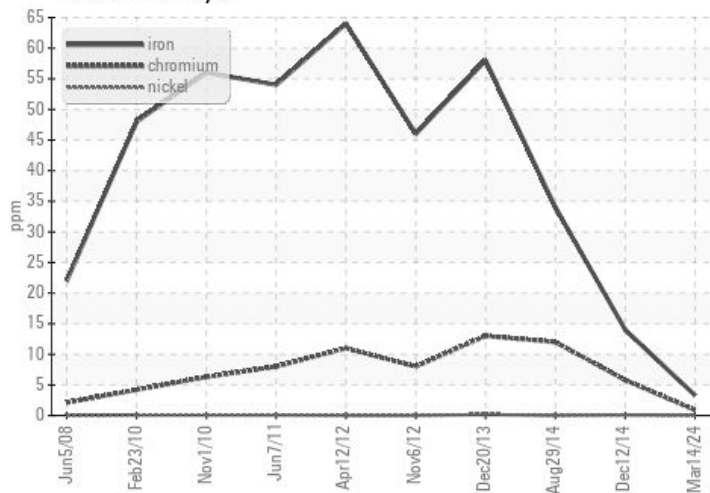
LIEBHERR

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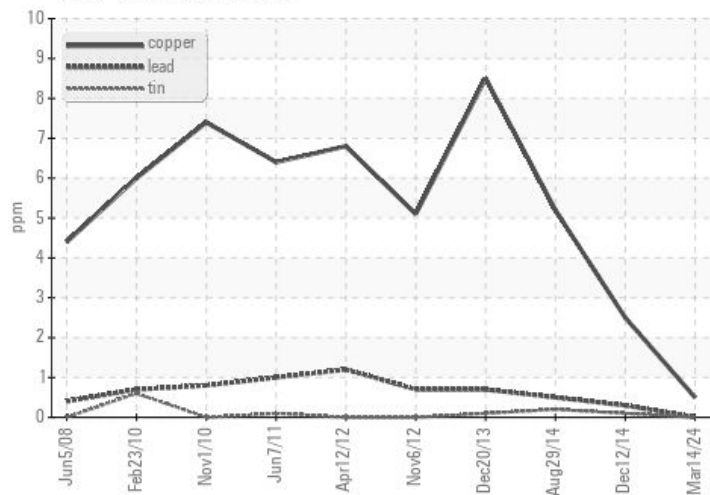


GRAPHS

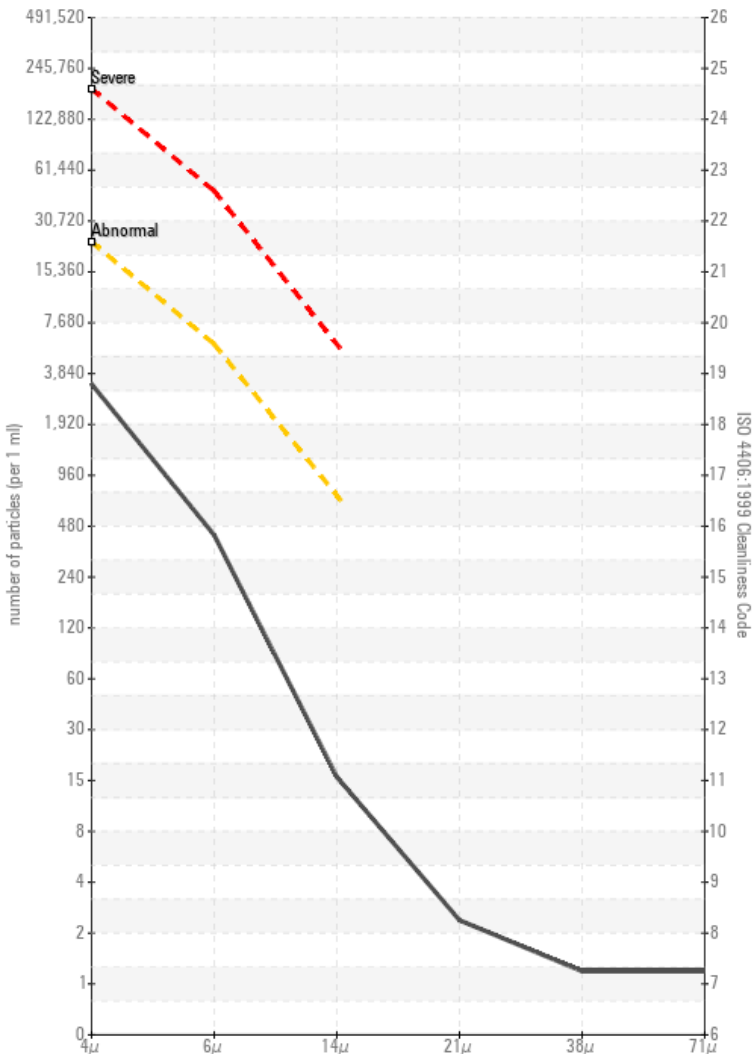
Ferrous Alloys



Non-ferrous Metals



Particle Count



Viscosity @ 40°C

