

LIEBHERR

CONSTRUCTION EQUIPMENT



[LIEBHERR] LIEBHERR A934C 041654-1006 - Swing Drive

Sample No: LH0258359

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0258359	LH0244686	DJJ019954	DJJ018834
Sample Date	13 Mar 2024	15 Jun 2023	07 Dec 2016	04 Feb 2016
Machine Hours	0	1855	13397	12971
Oil Hours	0	0	1000	500
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	SEVERE	ABNORMAL

DUMES INC

1640 NORTH 6TH ST

VINCENNES, IN

US 47591

Contact:



OIL CONDITION

Visc @ 40°C	cSt	142	178	202.1	141.5
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T:

F:



CONTAMINATION

Water	%	NEG	NEG	1.58	NEG
Silicon	ppm	4	4	0	<1
Sodium	ppm	<1	6	<1	2
Potassium	ppm	0	1	2	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 fluid. The condition of the fluid is acceptable for the time in service.



WEAR METALS

Iron	ppm	45	147	442	53
Copper	ppm	171	49	87	9
Lead	ppm	0	0	<1	<1
Tin	ppm	3	6	9	0
Aluminum	ppm	<1	<1	1	0
Chromium	ppm	0	<1	4	<1
Molybdenum	ppm	15	0	0	3
Nickel	ppm	0	0	<1	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	7	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	313	19	34	74
Magnesium	ppm	71	5	<1	46
Zinc	ppm	183	41	37	69
Phosphorus	ppm	1575	2145	1950	1883
Barium	ppm	0	0	2	0
Boron	ppm	31	0	18	11

Depot: DUMVINLH

Unique No: 10927535

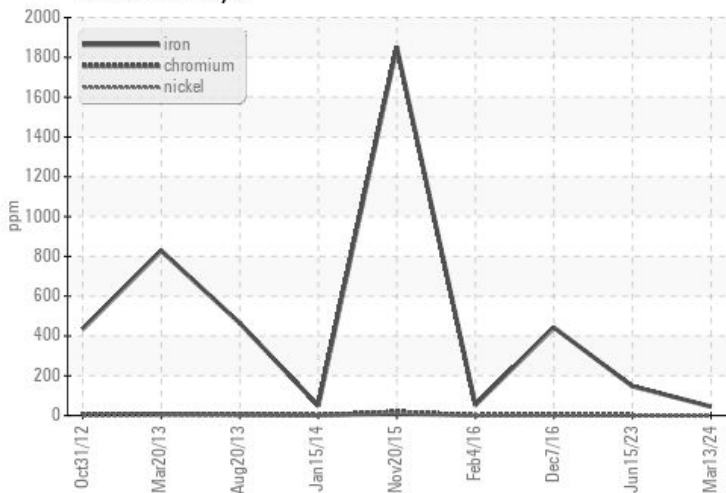
Signed: Don Baldrige

Report Date: 18 Mar 2024

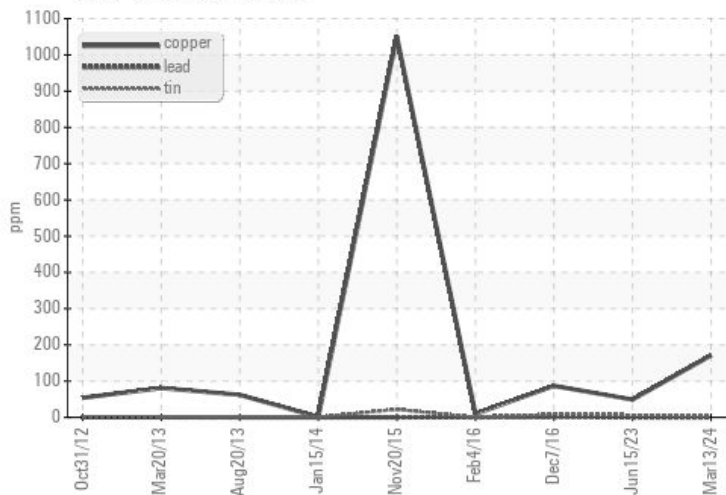


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

