CONSTRUCTION EQUIPMENT

LIEBHERR R920 050017-1705 - Swing Drive

Sample No: LH0258275

Oil Type: LIEBHERR HYPOID 85W-140 EP

SAMPLE INFORMATION

Sample Number		LH0258275	LH0229827	LH0243925	LH0229732
Sample Date		24 Aug 2023	04 Apr 2023	24 Jan 2023	26 Oct 2022
Machine Hours		3122	2127	1614	1042
Oil Hours		500	500	500	498
Oil Changed		Changed	Changed	Not Changd	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL	ABNORMAL
OIL CO	NDITION				
Visc @ 40°C	cSt	0 179	288	352	349
11					
	AMINATIO	N			
Water	%			0.136	0.212
0111-0-0		•••	\frown \downarrow		

Silicon	ppm	06	04	02	02
Sodium	ppm	3	2	2	2
Potassium	ppm	02	0	0	0

Ä					
WEAI	R METALS				
Iron	ppm	0 130	0 463	640	368
Copper	ppm	0 17	38	84	0 79
Lead	ppm	0	0	0	0 <1
Tin	ppm	2	01	3	01
Aluminum	ppm	01	◯ <1	◯ <1	01
Chromium	ppm	01	0 4	O 5	03
Molybdenum	ppm	0 (○ <1	○ <1	○ <1
Nickel	ppm	○ <1	0	0	0
Titanium	ppm	1	0	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	02	3	04	3
Vanadium	ppm	0	0	0	0

ADDITIVES Calcium ppm 47 5 4 Magnesium ppm <1</th> 5 5

Magnesium	ppm	○ <1	○ 5	5	○ <1
Zinc	ppm	5 3	0	22	0 45
Phosphorus	ppm	1934	1737	0 1349	0 1234
Barium	ppm	0	0	0	6
Boron	ppm	0	0	04	0





POTOMAC METALS

42702 DULLES TRADE CT
STERLING, VA
US 20166
Contact: JEREMY WONG
JEREMY.WONG@POTOMACMETALS.COM
T: (703)430-3667
F:

Diagnosis

20

We suspect abnormal contamination may be due to sampling method. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

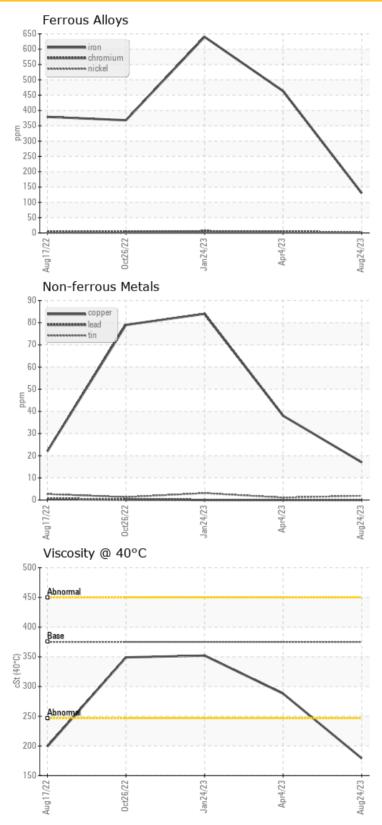
Depot:	POTSTE
Unique No:	10708580
Signed:	Jonathan Hester
Report Date:	26 Oct 2023

Contact/Location: JEREMY WONG - POTSTE





GRAPHS



Report Id: POTSTE [WUSCAR] 05985918 (Generated: 10/26/2023 21:23:49) Rev: 1