

LIEBHERR LH110 155976-1227 - Swing Drive

Sample No: LH0267530

Oil Type: SAE 30W

Sample Information

Sample Number		LH0267530	LH0280575	LH0280564	
Sample Date		18 Apr 2024	23 Feb 2024	30 Jan 2024	
Machine Hours		1623	995	534	
Oil Hours		628	0	0	
Oil Changed		Not Changd	Changed	Not Changd	
Sample Status		ATTENTION	NORMAL	NORMAL	
Oil Co i	ndition				
Visc @ 40°C	cSt	0 112	0 182	0 182	

**						
Contamination						
Water	%	NEG	NEG	NEG		
Silicon	ppm	0 2	07	○ 5		
Sodium	ppm	0	03	0		
Potassium	ppm	○ <1	2	02		

Ä					
Wea Wea	r Metals				
Iron	ppm	0 70	242	228	
Copper	ppm	0 37	0 108	○ 76	
Lead	ppm	0 ()	◯ <1	0	
Tin	ppm	○ <1	08	0 4	
Aluminum	ppm	○ <1	2	2	
Chromium	ppm	○ <1	○ <1	◯ <1	
Molybdenum	ppm	01	0	0	
Nickel	ppm	0 ()	○ <1	0	
Titanium	ppm	○ <1	0	0	
Silver	ppm	0	0	0	
Manganese	ppm	○ <1	02	1	
Vanadium	ppm	0	0	0	

0 **Additives** Calcium ppm 0 197 0 54 50 02 Magnesium 06 ppm < 0 33 Zinc 0 119 6 ppm 2364 Phosphorus ppm 0 457 1912 Barium 0 02 ppm Boron $\bigcirc 5$ ppm 0 🔘





KINDER MORGAN

4301 IVERSON TRINITY, AL US 35601 Contact: RICKY JOHNSON ricky_johnson@kindermorgan.com T: F: (256)355-5250

Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

 Depot:
 KINTRI

 Unique No:
 11031835

 Signed:
 Don Baldridge

 Report Date:
 17 May 2024

 Contact/Location: RICKY JOHNSON - KINTRI

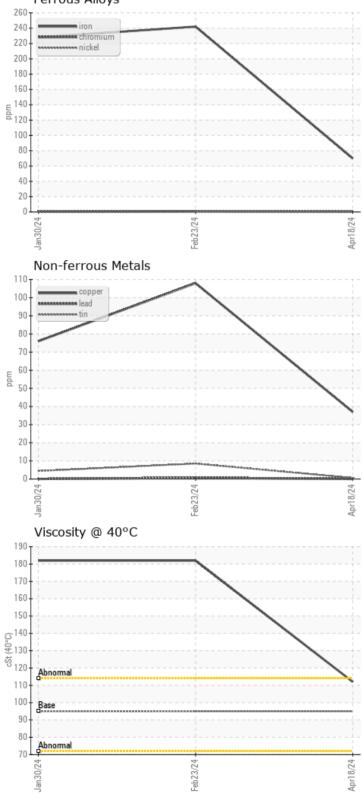






Ferrous Alloys

Graphs



Report Id: KINTRI [WUSCAR] 06180509 (Generated: 05/17/2024 19:18:03) Rev: 1