CONSTRUCTION EQUIPMENT

LIEBHERR LH80M 1218-157090 - Swing Drive

Sample No: LH0282875

Oil Type: SAE 30W

Sample Information

Sample Number	LH0282875	LH0282886	LH0282897				
Sample Date	18 May 2024	19 Apr 2024	19 Mar 2024				
Machine Hours	1559	997	545				
Oil Hours	0	0	0				
Oil Changed	Not Changd	Changed	Not Changd				
Sample Status	ATTENTION	ATTENTION	ATTENTION				
Oil Condition							
Visc @ 40°C cSt	94.2	0 174	0 185				

Contamination % Water NEG NEG NEG Silicon $\bigcirc 2$ ppm 02 1 Sodium 04 03 03 ppm

Potassium	ppm	0 2	03	2	
Ö					
Wea	r Metals				
Iron	ppm	9 3	0 173	0 135	
Copper	ppm	0 81	0 77	38	
Lead	ppm	0	◯ <1	0	
Tin	ppm	○ <1	03	3	
Aluminum	ppm	0 2	◯ <1	0	
Chromium	ppm	01	◯ <1	◯ <1	
Molybdenum	ppm	05	◯ <1	0 1	
Nickel	ppm	○ <1	◯ <1	◯ <1	
Titanium	ppm	○ <1	0	0	
Silver	ppm	<1	0	0	
Manganese	ppm	○ <1	0 2	02	
Vanadium	ppm	<1	0	<1	

	litives				
Calcium	ppm	— 190	0 192	0 34	
Magnesium	ppm	O 34	07	0	
Zinc	ppm	 131	0 85	0 13	
Phosphorus	ppm	0 474	0 2234	0 2102	
Barium	ppm	0	0	0	
Boron	ppm	6	08	0 4	





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.

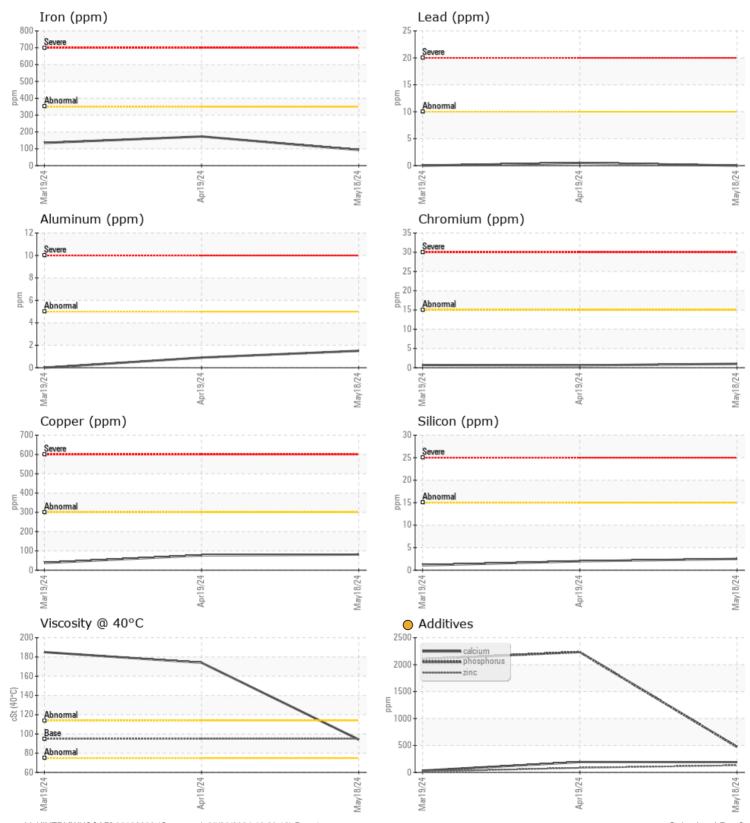
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Graphs

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