# CONSTRUCTION EQUIPMENT



### [[HAWAIIAN CEMENT]] LIEBHERR R9150B 45.1992301 (S/N 38178) - Rear Swing Drive

Sample No: LH0267635

Oil Type: CASTROL ALPHASYN PG 460

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SAM	PLE INFO	DRMATION		
Sample Number		LH0267635	 	
Sample Date		04 Dec 2023	 	
Machine Hours		424	 	
Oil Hours		424	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
<b>A</b>				
OILC	ONDITIO	N		
Visc @ 40°C	cSt	<b>448</b>	 	
-1	001	0 1.0		
CONT	TAMINA			
CON	IAMINA	TION		
Water	%	NEG	 	
Silicon	ppm	<b>○</b> <1	 	
Sodium	ppm	<b>0</b> 0	 	
Potassium	ppm	<b>0</b>	 	
<b>WEA</b>	R META	LS		
Iron	ppm	<b>11</b>	 	
Copper	ppm	<b>3</b>	 	
Lead	ppm	<b>0</b>	 	
Tin	ppm	<b>0</b>	 	
Aluminum	ppm	<b>0</b>	 	
Chromium	ppm	<b>0</b>	 	
Molybdenum	ppm	0	 	
Nickel	ppm	<b>0</b>	 	
Titanium	ppm	0	 	
Silver	ppm	0	 ***	
Manganese	ppm	0	 ***	
Vanadium	ppm	0	 	
ADDI	TIVES			
Calcium	ppm	6	 	
Magnesium	ppm	1	 	
Zinc	ppm	8	 	
Phosphorus	ppm	204	 	
Barium	ppm	0	 	
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#### LIEBHERR MINING EQUIPMENT CO

5800 S DOUGLAS HWY GILLETTE, WY US 82718

Contact: SCOTT BRADLEY scott.bradley@liebherr.com

T: F:

#### 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. The condition of the oil is acceptable for the time in service.

Depot:LIEGILUnique No:10781658Signed:Sean FeltonReport Date:14 Dec 2023

ppm

Boron

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#### **GRAPHS**

