



LIEBHERR SW884ND 3W79-40261 - VALLEY CONSTRUCTION - Diesel Engine

Sample No: LHMC116899

Oil Type: SHELL ROTELLA T4 15W40

SAMPLE INFORMATION							
Sample Number		LHMC116899					
Sample Date		04 Dec 2023					
Machine Hours		595					
Oil Hours		222					
Oil Changed		N/A					
Sample Status		NORMAL					
Visc @ 100°C	NDITION	13.6					
Base Number (BN)		7.8					
Oxidation (PA)	%	69					
Water	%	NEG					

Water	%	NEG	 	
Soot %	%	0.1	 	
Nitration (PA)	%	54	 	
Sulfation (PA)	%	55	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	0 12	 	
Sodium	ppm	5	 	
Potassium	ppm	0 17	 	

\bigcirc WEAR METALS Iron ppm 0 12 Copper 03 ppm Lead 03 ppm Tin 2 ppm Aluminum 6 ppm Chromium 01 ppm Molybdenum 0 10 ppm Nickel 01 ppm Titanium ○ <1 ppm Silver 0 <1 ppm Manganese ppm 02 Vanadium ppm <1

ADDITIVES							
Calcium	ppm	0 3075					
Magnesium	ppm	92					
Zinc	ppm	0 1665					
Phosphorus	ppm	0 1462					
Barium	ppm	0 2					
Boron	ppm	247					

LIEBHERR MINING EQUIPMENT CO 336 OSINO UNIT 12 ELKO, NV US 89801 Contact: TED PILZ ted.pilz@liebherr.com T: (775)388-0532 F: (775)738-7432

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot:LIEBHERRNVUnique No:10941003Signed:Sean FeltonReport Date:26 Mar 2024

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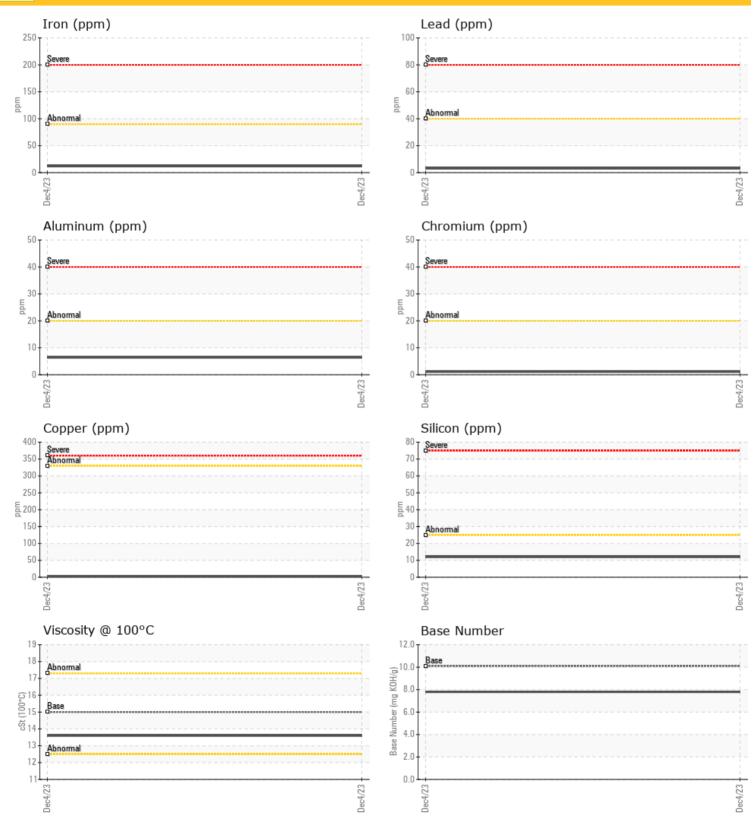
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CONSTRUCTION EQUIPMENT



GRAPHS

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Contact/Location: TED PILZ - LIEBHERRNV