LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR R936LC 28 (S/N 047223-2149) - Diesel Engine

Sample No: LHMC93459

Oil Type: LIEBHERR MOTOROIL 10W-40 LOW ASH

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Samp	Sample Information							
Sample Number		LHMC93459						
Sample Date		06 Jun 2024						
Machine Hours		4894						
Oil Hours		0						
Oil Changed		N/A						
Sample Status		ATTENTION						
A Commence of the Commence of								
Oil Condition								
Visc @ 100°C	cSt	12.2						
Base Number (BN)	mg KOH/g	8.5						
Oxidation (PA)	%	155						
Contamination								
Water	%	NEG						

Conta	mination			
Water	%	NEG	 	
Soot %	%	0.1	 	
Nitration (PA)	%	63	 	
Sulfation (PA)	%	93	 	
Glycol	%	NEG	 	
Fuel	%	0.4	 	
Silicon	ppm	29	 	
Sodium	ppm	4	 	
Potassium	ppm	4	 	

Wed	ar Metal	S		
Iron	ppm	16	 	
Copper	ppm	23	 	
Lead	ppm	1	 	
Tin	ppm	() <1	 	
Aluminum	ppm	6	 	
Chromium	ppm	0 1	 	
Molybdenum	ppm	44	 	
Nickel	ppm	() <1	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	5	 	
Vanadium	ppm	<1	 	

Additives						
Calcium	ppm	1642				
Magnesium	ppm	683				
Zinc	ppm	875				
Phosphorus	ppm	764				
Barium	ppm	1				
Boron	ppm	145				
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BANE MACHINERY INC

2449 MANANA DR DALLAS, TX US 75220

Contact: BOBBIE WADLEY bwadley@banemachinery.com

T: (214)352-2468

F:

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot:BANDALUnique No:11115574Signed:Sean FeltonReport Date:12 Jul 2024

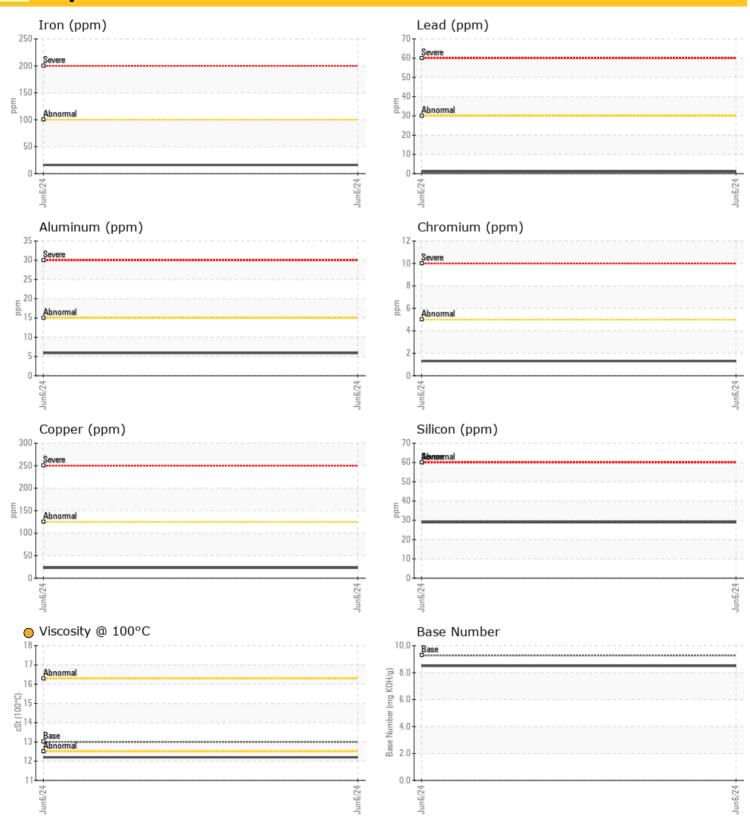
LIEBHERR







Graphs



LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR R936LC 047223-2149 - Diesel Fuel

0

0

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0

ppm

ppm

ppm

ppm

Sample No: LHMC93456
Oil Type: NOT GIVEN

Nickel

Silicon

Aluminum

Vanadium

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SAMPLEINFORMATION							
Sample Number		LHMC93456					
Sample Date		10 Dec 2023					
Machine Hours		4596					
Sample Status		NORMAL					
FUEL CONDITION							
Sulfur	ppm	0					
Visc @ 40°C	cSt	2.6					
CONTAMINATION							
Water	%	0.003					
Lead	ppm	0					



BANE MACHINERY INC 2449 MANANA DR

DALLAS, TX US 75220

Contact: BOBBIE WADLEY bwadley@banemachinery.com

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F:

Diagnosis

This is a baseline read-out on the submitted sample. No corrective action is recommended at this time.All metal levels are normal indicating no corrosion in the system. The water content is negligible. There is no indication of any contamination in the fuel. The condition of the fuel is acceptable for the time in service.

Depot:BANDALUnique No:10804851Signed:Jonathan HesterReport Date:29 Dec 2023

CONSTRUCTION EQUIPMENT





GRAPHS

