CONSTRUCTION EQUIPMENT

LIEBHERR LH80M 155277-1218 - Diesel Engine

LIEBHERR MOTOROIL 5W-30 LOW ASH

Sample No: LH0191255

Oil Type:

SAMPLE INFORMATION

Sample Number	LH0191255	LH0243741	
Sample Date	11 Feb 2024	18 Jan 2024	
Machine Hours	600	362	
Oil Hours	238	221	
Oil Changed	Changed	Changed	
Sample Status	NORMAL	NORMAL	

OIL CONDITION Visc @ 100°C cSt 0 12.1

Visc @ 100°C	cSt	0 12.1	0 12.2	
Base Number (BN)	mg KOH/g	07.1	7.3	
Oxidation (PA)	%	59	76	

Water	%	NEG	NEG		
Soot %	%	0.1	0		
Nitration (PA)	%	73	73		
Sulfation (PA)	%	52	60		
Glycol	%	NEG	NEG		
Fuel	%	<1.0	<1.0		
Silicon	ppm	06	07		
Sodium	ppm	2	0 4		
Potassium	ppm	3	0 4		

(•) WEAR METALS Iron ppm 01 04 Copper 02 ppm 6 Lead 0 0 <1 ppm Tin 0 <1 ppm <1 Aluminum ○ <1 $\bigcirc 2$ ppm Chromium 0 ○ <1 ppm Molybdenum 0 08 ppm Nickel 0 0 <1 ppm Titanium <1 <1 ppm Silver $\bigcirc 0$ 0 (ppm Manganese ppm **○** <1 ◯ <1 Vanadium ppm 0 <1

	ITIVES			
Calcium	ppm	1161	1212	
Magnesium	ppm	685	○ 731	
Zinc	ppm	0 763	0 804	
Phosphorus	ppm	690	744	
Barium	ppm	0	0	
Boron	ppm	0 87	0 108	



NUCOR STEEL

2911 E NUCOR RD NORFOLK, NE US 68702 Contact: NICOLE IRISH nicole.irish@nucor.com T: (402)500-9035 F: (402)644-0389

Diagnosis

Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. 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 suitable for further service.

Depot:NUCNORUnique No:10888922Signed:Wes DavisReport Date:22 Feb 2024

Report Id: NUCNOR [WUSCAR] 06096069 (Generated: 02/22/2024 15:26:48) Rev: 1

Contact/Location: NICOLE IRISH - NUCNOR

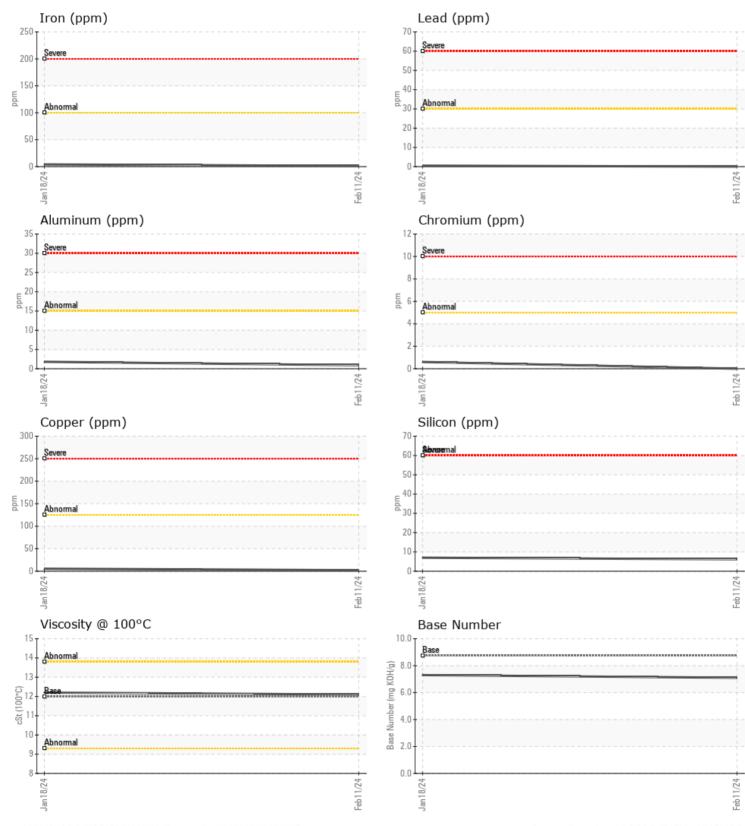






GRAPHS

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