LIEBHERR

CONSTRUCTION EQUIPMENT

MS20 - Rear Differential

Sample No: LH0244839

Oil Type: GEAR OIL SAE 80W90





OSCAR WINSKI CO. INC

2407 N. 9TH STREET LAFAYETTE, IN US 47904

Contact: JAYSON FRAZIER frazierj@oscarwinski.com T: (765)376-1230

F: x:

SAMPLEINFORMATION						
Sample Number	LH0244839					
Sample Date	14 Dec 2023					
Machine Hours	3388					
Oil Hours	0					
Oil Changed	Not Changd					
Sample Status	NORMAL					
(A)						



OIL CONDITION



CONTAMINATION

CONTAMINATION					
Water	%	NEG			
Silicon	ppm	1			
Sodium	ppm	0			
Potassium	ppm	0			



WEAR METALS

Iron	ppm	34	 	
Copper	ppm	0	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	0	 	
Chromium	ppm	0	 	
Molybdenum	ppm	0	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	<1	 	
Vanadium	ppm	0	 ***	



ADDITIVES

Report Id: OSCLAF [WUSCAR] 06046456 (Generated: 12/29/2023 11:12:50) Rev: 1

Calcium	ppm	30	 	
Magnesium	ppm	0	 	
Zinc	ppm	3	 	
Phosphorus	ppm	968	 	
Barium	ppm	0	 	
Boron	ppm	265	 	

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: OSCLAF
Unique No: 10807064
Signed: Jonathan Hester
Report Date: 29 Dec 2023

CONSTRUCTION EQUIPMENT





GRAPHS

