LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH30M 1253-145780 - Diesel Engine

Sample No: LH0276602

Oil Type: PETRO CANADA DURON UHP 5W30

SAMPLEINFORMATION						
Sample Number	LH0276602					
Sample Date	01 Oct 2023					
Machine Hours	520					
Oil Hours	520					
Oil Changed	Changed					
Sample Status	ABNORMAL					
A						

OIL CONDITION							
Visc @ 100°C	cSt	11.5					
Base Number (BN)	mg KOH/g	3.8					
Oxidation (PA)	%	211					

CONTAMINATION					
Water	%	NEG			
Soot %	%	0.1			
Nitration (PA)	%	101			
Sulfation (PA)	%	110			
Glycol	%	NEG			
Fuel	%	<1.0			
Silicon	ppm	10			
Sodium	ppm	0			
Potassium	ppm	5			

WEA	R METALS			
Iron	ppm	15	 	
Copper	ppm	276	 	
Lead	ppm	3	 	
Tin	ppm	2	 	
Aluminum	ppm	4	 	
Chromium	ppm	2	 	
Molybdenum	ppm	47	 	
Nickel	ppm	0 <1	 	
Titanium	ppm	1	 	
Silver	ppm	0	 	
Manganese	ppm	1	 	
Vanadium	ppm	0	 	

ADDITIVES						
Calcium	ppm	1347				
Magnesium	ppm	914				
Zinc	ppm	886				
Phosphorus	ppm	746				
Barium	ppm	36				
Boron	ppm	92				



TRAM CONSTRUCTION

9279 E KY 8 GARRISON, KY US 41141

Contact: Service Manager

T: F:

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The BN level is low. The condition of the oil is acceptable for the time in service.

Depot: TRAGARLH
Unique No: 10805984
Signed: Jonathan Hester
Report Date: 27 Dec 2023

LIEBHERR







GRAPHS

