LIEBHERR

CONSTRUCTION EQUIPMENT

[ALI MOHAMEDDI] NOUNITLHO215902 - Diesel Engine

Sample No: LH0215902

Oil Type: CASTROL SYNTEC FULL SYNTHETIC 5W40

5					
SAME	PLE INFOR	MATION			
Sample Number		LH0215902			
Sample Date		06 Jul 2022			
Machine Hours		0			
Oil Hours		0			
Oil Changed		Not Changd			
Sample Status		NORMAL			
OIL CONDITION					
Visc @ 100°C	cSt	12.4			
Oxidation (PA)	%	105			
-4					
CONTAMINATION					
Soot %	0/	0			

CONTAMINATION					
Soot %	%	0 0			
Nitration (PA)	%	138			
Sulfation (PA)	%	80			
Glycol	%	0.0			
Fuel	%	2.5			
Silicon	ppm	6			
Sodium	ppm	12			
Potassium	ppm	9			

O WEA				
WEA WEA	R METALS			
Iron	ppm	55	 	
Copper	ppm	8	 	
Lead	ppm	1	 	
Tin	ppm	2	 	
Aluminum	ppm	7	 	
Chromium	ppm	1	 	
Molybdenum	ppm	11	 	
Nickel	ppm	1	 	
Titanium	ppm	22	 	
Silver	ppm	0	 	
Manganese	ppm	2	 	
Vanadium	ppm	<1	 	

ADDITIVES					
Calcium	ppm	2672			
Magnesium	ppm	18			
Zinc	ppm	998			
Phosphorus	ppm	824			
Barium	ppm	0			
Boron	ppm	56			



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Contact: Steve Lehto steve.lehto@liebherr.com

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Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. Please specify the component make and model with your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot:LIEMISUnique No:5424059Signed:Kevin MarsonReport Date:14 Jul 2022

Contact/Location: Steve Lehto - LIEMIS

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GRAPHS

