LIEBHERR

CONSTRUCTION EQUIPMENT



[[MALVERN MINERALS]] FORKLIFT NISSIAN APIF2-9U24393 9U24393 - Die

Sample No: LHMC121713

Oil Type: DIESEL ENGINE OIL SAE 15W40

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SAMP	LE INFOR	MATION		
Sample Number		LHMC121713	LHMC121712	
Sample Date		30 Aug 2023	23 May 2023	
Machine Hours		3673	250	
Oil Hours		0	0	
Oil Changed		N/A	Not Changd	
Sample Status		ATTENTION	ABNORMAL	
OIL CO	NDITION			
Visc @ 100°C	cSt	<u> </u>	9.8	
Base Number (BN)	mg KOH/g	6.5	O 10.1	
Oxidation (PA)	%	28	38	

CONTAMINATION						
Soot %	%	0.1	0.2			
Nitration (PA)	%	41	64			
Sulfation (PA)	%	37	37			
Glycol	%	NEG	NEG			
Fuel	%	<1.0	0.4			
Silicon	ppm	13	0 78			
Sodium	ppm	1	4			
Potassium	ppm	2	O 7			

WEA	R METALS			
Iron	ppm	58	O 271	
Copper	ppm	O <1	O 2	
Lead	ppm	4	7	
Tin	ppm	0 <1	O 2	
Aluminum	ppm	9	2 9	
Chromium	ppm	○ <1	4	
Molybdenum	ppm	36	O 42	
Nickel	ppm	0	O <1	
Titanium	ppm	() <1	<1	
Silver	ppm	0	0	
Manganese	ppm	2	5	
Vanadium	ppm	0	<1	

ADDITIVES					
Calcium	ppm	894	O 984		
Magnesium	ppm	819	O 786		
Zinc	ppm	1104	O 1179		
Phosphorus	ppm	917	O 977		
Barium	ppm	0	0		
Boron	ppm	2	6		



LIFT TRUCK SERVICE 12829 INTERSTATE 30 LITTLE ROCK, AR

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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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot:LIFLITUnique No:10633433Signed:Sean FeltonReport Date:08 Sep 2023

Contact/Location: MICHELE COPLEN - LIFLIT





GRAPHS

