

CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L220H 3555 - DIESEL ENGINE

Sample No: VCP401920
Oil Type: MOBIL 15W40

Job No: TRANSPORT LEASING

VOLVO SAMPLE II	NFORMATION			
	MI OMMATION	VCD401020	 	
Sample Number		VCP401920	 	
Sample Date		13 Dec 2023	 	
Machine Hours		505	 	
Oil Hours		505	 	
Oil Changed		N/A	 	
Sample Status		ABNORMAL	 	
VOLVO				
OIL CONDI	TION			
Visc @ 100°C	cSt	11.2	 	
Base Number (BN)	mg KOH/g	5.6	 	
Oxidation (PA)	%	61	 	
CUNTAMIN	NATION			
CONTAMIN	-			
Water	%	NEG	 	
Soot %	%	■ 0.2	 	
Nitration (PA)	%	73	 	
Sulfation (PA)	%	52	 	
Glycol	%	NEG	 	
Fuel	%	■ 0.3	 	
Silicon	ppm	■ 25	 	
Sodium	ppm	■ 3	 	
Potassium	ppm	■3	 	
VOLVO				
WEAR ME	TALS			
Iron	ppm	10	 	
Copper	ppm	<u>△</u> 307	 	
Lead	ppm	■<1	 	
Tin	ppm	3	 	
Aluminum	ppm	2	 	
Chromium	ppm	■0	 	
Molybdenum	ppm	■84	 	
Nickel	ppm		 	
Titanium	ppm	0	 	
Silver	ppm	■0	 	
Manganese	ppm	2	 	
Vanadium	ppm	0	 	
ADDITIVE	7			
ADDITIVE				
Calcium	ppm	1989	 	
Magnesium	ppm	■101	 	
Zinc	ppm	1138	 	
Phosphorus	ppm	936	 	
Barium	ppm	■0	 	



ARNOLD MACHINERY COMPANY

464 WASHINGTON STREET S TWIN FALLS, ID US 83301 Contact: JANAE HYMAS jhymas@arnoldmachinery.com T: (208)733-1715 F: (775)356-7152

Diagnosis

The oil 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. Fuel content negligible. 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:VOLVO1835Unique No:10795627Signed:Jonathan HesterReport Date:26 Dec 2023

45

ppm

Boron



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GRAPHS

