

CONSTRUCTION EQUIPMENT VOLVO L220H 3569 - DIESEL ENGINE



Sample No: VCP401929
Oil Type: MOBIL 15W40

Job No:

SAMPLE II	NFORMATION				
Sample Number		VCP401929			
Sample Date		18 Dec 2023			
Machine Hours		544			
Oil Hours		544			
Oil Changed		Changed			
Sample Status		ABNORMAL			
OIL CONDITION					
		-			
Visc @ 100°C	cSt	▲ 11.2			
Base Number (BN)		6.2			
Oxidation (PA)	%	61			
VOLVO					
CONTAMINATION					
Water	%	NEG			
Soot %	%	■ 0.2			
Nitration (PA)	%	71			
Sulfation (PA)	%	53			
Glycol	%	NEG			
Fuel	%	■0.1			
Silicon	ppm	22			
Sodium	ppm	1			
Potassium	ppm	4			
WEAR METALS					
•		=42	_		
Iron	ppm	■ 13			
Copper	ppm	▲ 322 ■ -1			
Lead Tin	ppm	■ <1 ■ 2			
Aluminum	ppm	2			
Chromium	ppm	■ 2			
Molybdenum	ppm	85			
Nickel	ppm	■ <1			
Titanium	ppm	0			
Silver	ppm	O			
Manganese	ppm	2			
Vanadium	ppm	0			
		-			
ADDITIVE	2				
Calcium	ppm	2115			
Magnesium	ppm	53			
Zinc	ppm	1178			
Phosphorus	ppm	950			
Barium	ppm	0			
Boron	ppm	47			



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Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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:10806378Signed:Don BaldridgeReport Date:28 Dec 2023



CONSTRUCTION EQUIPMENT





