

CONSTRUCTION EQUIPMENT SW1023101 VOLVO L220H 3297 - DIESEL ENGINE



Sample No: VCP370754
Oil Type: NOT GIVEN
Job No: SW1023101

SAMPLE II	NFORMATION			
Sample Number		VCP370754	 	
Sample Date		24 Aug 2023	 	
Machine Hours		5418	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		SEVERE	 	
OIL CONDI	TION			
_		*=		
Visc @ 100°C	cSt	■13.7	 	
Base Number (BN)		■13.7	 	
Oxidation (PA)	%	73	 	
VOLVO				
CONTAMIN	NATION			
Soot %	%	□ 0.5	 	
Nitration (PA)	%	75	 	
Sulfation (PA)	%	80	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	2974	 	
Sodium	ppm	<u> </u>	 	
Potassium	ppm	<u> </u>	 	
WEAR ME	7147			
_		1468	 	
Iron Copper	ppm	▲ 21	 	
Lead	ppm ppm	■13	 	
Tin	ppm	▲ 10	 	
Aluminum	ppm	951	 	
Chromium	ppm	37	 	
Molybdenum	ppm	5 4	 	
Nickel	ppm	9	 	
Titanium	ppm	116	 	
Silver	ppm	0	 	
Manganese	ppm	22	 	
Vanadium	ppm	4	 	
ADDITIVE:	5			
Calcium	ppm	2584	 	
Magnesium	ppm	1178	 	
Zinc	ppm	1013	 	
Phosphorus	ppm	■883	 	
Barium	ppm	■0	 	
Boron	ppm	40	 	



ARNOLD MACHINERY COMPANY

4323 EAST WINSLOW AVENUE PHOENIX, AZ US 85040 Contact: RANDY PRZEKURAT randyp@arnoldmachinery.com T:

F: (602)414-1904

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Piston, ring and cylinder wear is indicated. High wear metal levels reflect the reported failure. Sodium and/or potassium levels are high. Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO6174
Unique No: 10619892
Signed: Jonathan Hester
Report Date: 29 Aug 2023



CONSTRUCTION EQUIPMENT





