

CONSTRUCTION EQUIPMENT SWA361236 VOLVO L90G 617437 - DIESEL ENGINE



Sample No: VCP400670

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No: SWA361236

SAMPLE II	NFORMATION			
Sample Number		VCP400670	VCP309041	
Sample Date		15 Sep 2023	08 Apr 2021	
Machine Hours		8105	7182	
Oil Hours		8105	0	
Oil Changed		Changed	Changed	
Sample Status		SEVERE	NORMAL	
OIL CONDI	TION			
			-112	
Visc @ 100°C	cSt	12.7	14.32	
Base Number (BN)		■ 10.1		
Oxidation (PA)	%	73	69	
VOLVO				
CONTAMIN	NATION			
Soot %	%	■ 0.3	□ 0.1	
Nitration (PA)	%	56	70	
Sulfation (PA)	%	57	60	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	< 1.0	
Silicon	ppm	57	1 0	
Sodium	ppm	6	0	
Potassium	ppm	■ 6	7	
VOLVO				
WEAR ME	TALS			
Iron	ppm	29	<u>22</u>	
Copper	ppm	6	3	
Lead	ppm	1	- <1	
Tin	ppm	3	- <1	
Aluminum	ppm	<u> </u>	<u>24</u>	
Chromium	ppm	2	1	
Molybdenum	ppm	■ 52	4	
Nickel	ppm	■ 1	0	
Titanium	ppm	<1	<1	
Silver	ppm	■ 0	0	
Manganese	ppm	■3	< 1	
Vanadium	ppm	0	0	
VOLVO				
ADDITIVE:	5			
Calcium	ppm	1644	■2176	
Magnesium	ppm	490	6 3	
Zinc	ppm	■ 1132	1170	
Phosphorus	ppm	910	964	
Barium	ppm	■0	□0	
Boron	ppm	■53	220	
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ALTA EQUIPMENT COMPANY

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Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (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:VOLVO0090Unique No:10657327Signed:Doug BogartReport Date:21 Sep 2023



CONSTRUCTION EQUIPMENT





