

CONSTRUCTION EQUIPMENT VOLVO L110H 631862 - DIESEL ENGINE



Sample No: VCP412569

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

Job No:

VOLVO				
🤍 SAMPLE II	NFORMATION			
Sample Number		VCP412569	VCP432510	
Sample Date		08 Nov 2023	15 Sep 2023	
Machine Hours		3626	3492	
Oil Hours		134	0	
Oil Changed		Not Changd	Changed	
Sample Status		ABNORMAL	SEVERE	
OIL CONDI	TION			
Visc @ 100°C	cSt	14.6	15.3	
Base Number (BN)		9.8	9.5	
Oxidation (PA)	%	67	73	
	70		1.5	
VOLVO				
Contamii	-			
Soot %	%	0.3	0.7	
Nitration (PA)	%	63	73	
Sulfation (PA)	%	58	63	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	<1.0	
Silicon	ppm	<u> </u>	• 78	
Sodium	ppm	1	3	
Potassium	ppm	2	6	
VOLVO				
🤍 WEAR ME	TALS			
Iron	ppm	63	1 27	
Copper	ppm	2	14	
Lead	ppm		2	
Tin	ppm	∎1	4	
Aluminum	ppm	4	2 1	
Chromium	ppm	4	▲ 17	
Molybdenum	ppm	61	72	
Nickel	ppm		2	
Titanium	ppm	<1	1	
Silver	ppm	0	 <1	
Manganese	ppm	■ <1	2	
Vanadium	ppm	0	<1	
	٢			
Calcium		1254	1717	
Magnesium	ppm	1254	1001	
Zinc	ppm	1428	1564	
Phosphorus	ppm	1 1117	1287	
Barium	ppm		0	
Boron	ppm ppm	1 0	14	
boron	ppiii		14	



ARNOLD MACHINERY 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. Resample at the next service interval to monitor.All component wear rates are normal. 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 condition of the oil is acceptable for the time in service.

 Depot:
 VOLV08770

 Unique No:
 10736454

 Signed:
 Sean Felton

 Report Date:
 10 Nov 2023

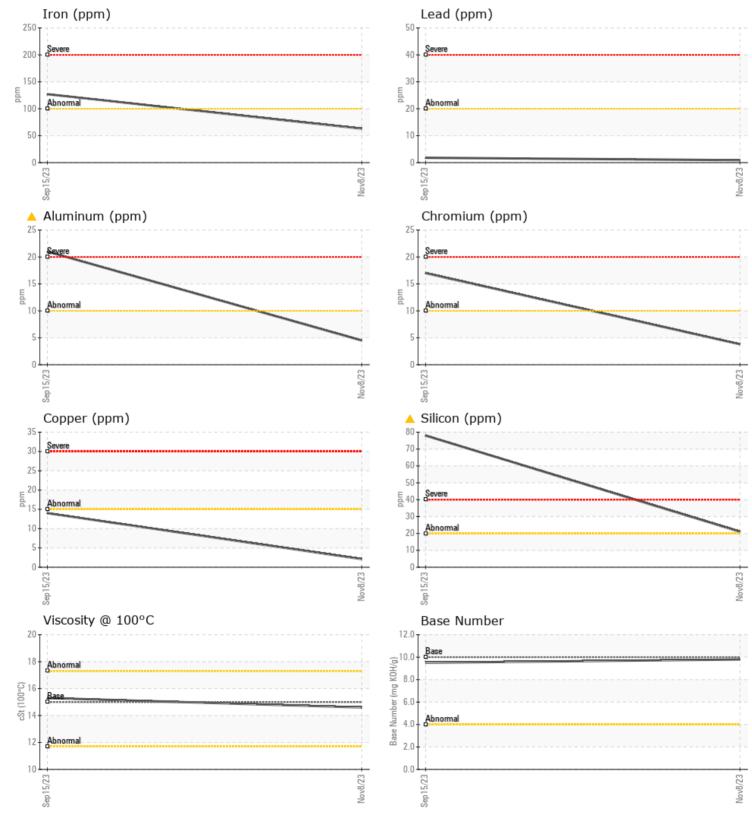
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CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



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