

CONSTRUCTION EQUIPMENT VOLVO L110H 10650 - DIESEL ENGINE



Sample No: VCP402981

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

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Job No:

SAMPLE I	NFORMATION			
Sample Number	-	VCP402981	VCE63278	
Sample Date		29 Mar 2023	22 Jan 2018	
Machine Hours		8978	500	
Oil Hours		500	0	
Oil Changed		Changed	Changed	
Sample Status		SEVERE	ABNORMAL	
OIL CONDI	TION			
Visc @ 100°C	cSt	13.0	11.38	
Base Number (BN)	mg KOH/g	9.5		
Oxidation (PA)	%	90	56	
CONTAMI	NATION			
Soot %	%	0.4	0	
Nitration (PA)	%	81	58	
Sulfation (PA)	%	65	50	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	< 1.0	
Silicon	ppm	• 44	35	
Sodium	ppm	3	7	
Potassium	ppm	 <1	4	
WEAR ME	TALS			
Iron	ppm	27	47	
Copper	ppm	2	10	
Lead	ppm	3	3	
Tin	ppm	1	3	
Aluminum	ppm	<u> </u>	8 2	
Chromium	ppm	1	7	
Molybdenum	ppm	4 9	44	
Nickel	ppm	□ <1	 <1	
Titanium	ppm	<1	<1	
C'1			1	

216 - ASCENDUM MACHINERY INC - PIEDMONT 407 OAK ROAD PIEDMONT, SC US 29673 Contact: KEMP COBLE kemp.coble@ascendummachinery.com T: (864)704-1060 F: (864)704-1069

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter 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.

Vanadium
VOLVO

Silver

Manganese

ADDITIVES								
Calcium	ppm	1868	1165					
Magnesium	ppm	575	917					
Zinc	ppm	1272	1047					
Phosphorus	ppm	1075	922					
Barium	ppm	0	<1					
Boron	ppm	30	45					
Boron		■ 30	45					

1

0

3

 Depot:
 VOLVO4596

 Unique No:
 10404926

 Signed:
 Don Baldridge

 Report Date:
 03 Apr 2023

Report Id: VOLVO4596 [WUSCAR] 05807397 (Generated: 09/26/2023 14:39:20) Rev: 1

0

|| <1

0

ppm

ppm

ppm

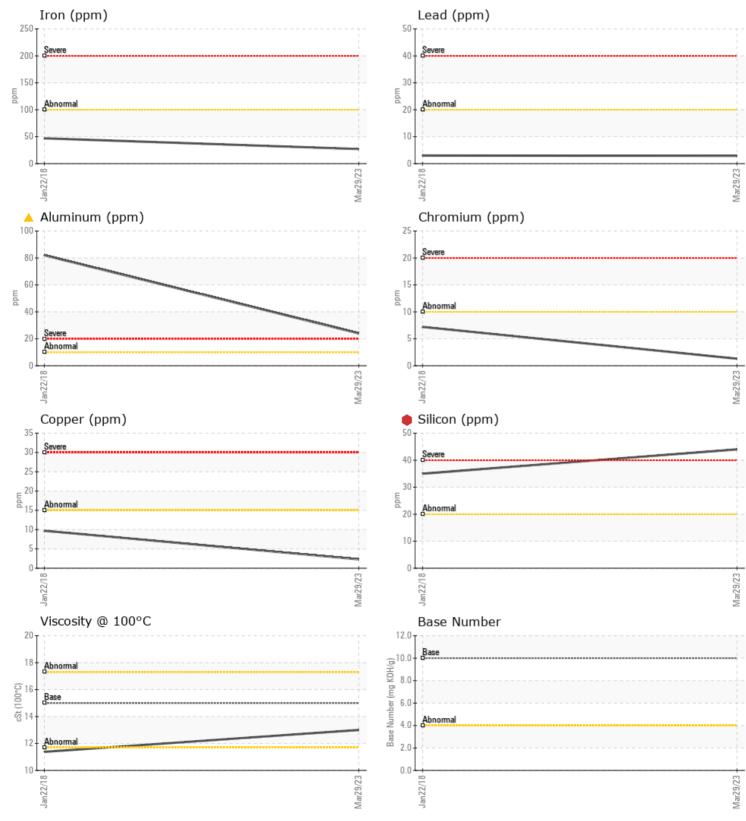
Contact/Location: KEMP COBLE - VOLVO4596

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



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Contact/Location: KEMP COBLE - VOLVO4596