

CONSTRUCTION EQUIPMENT VOLVO A40D 70023 - DIESEL ENGINE



Sample No: VCP143844

Oil Type: DIESEL ENGINE OIL SAE 15W40

Job No:

CVMDIEII	NFORMATION				
	NFURMATION				
Sample Number		VCP143844	VCP218398	VCE192372	VCP179449
Sample Date		29 Sep 2023	23 Jan 2018	10 Aug 2017	19 Dec 2016
Machine Hours		9941	8409	7951	7396
Oil Hours		625	458	555	0
Oil Changed		Not Changd	Changed	Changed	Not Changd
Sample Status		ABNORMAL	NORMAL	ABNORMAL	NORMAL
VOLVO					
OIL CONDI	TION				
Visc @ 100°C	cSt	11.9	■13.09	12.5	■13.85
Base Number (BN)	mg KOH/g	7.1			
Oxidation (PA)	%	47	■52	□ 56	□48
CONTAMIN	NATION				
Soot %	%	□0.9	□0.1	□0.6	□0
Nitration (PA)	%	67	50	□ 58	4 2
Sulfation (PA)	%	52	1 47	■ 50	4 4
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	■1.1	<1.0	<1.0	<1.0
Silicon	ppm	<u>5</u>	4	<u>▲</u> 28	6
Sodium	ppm	1	2	■ 13	6
Potassium	ppm	3	<1	22	0
	PP				
WEAR ME	7 ΙΔΤ				
		= 26		T-60	
Iron	ppm	26	6	6 0	6
Copper	ppm	<u>439</u>	18	2 2	4
Lead	ppm	1	<1	5	<1
Tin	ppm	2	1	8	2
Aluminum	ppm	4	2	5	2
Chromium	ppm	= <1	<1	2	1 <1
Molybdenum	ppm	■33	4 9	1 2	1 5
Nickel	ppm	- <1	<1	3	□ <1
Titanium	ppm		0	<1	<1
Silver	ppm	0			
Manganese	ppm	0	<1	5	<1
Vanadium	ppm	<1	0	0	0
VOLVO	_				
ADDITIVE	2				
Calcium	ppm	1738	1112	■2134	□2195
Magnesium	ppm	403	737	■159	17
Zinc	ppm	1135	■952	■1047	1 010
Phosphorus	ppm	962	■954	782	■995
Barium	ppm	7	<u> </u>	0	0
Boron	ppm	4	5	■32	7 1
	-				



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Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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 component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot:GLOPLEUnique No:10737808Signed:Sean FeltonReport Date:14 Nov 2023

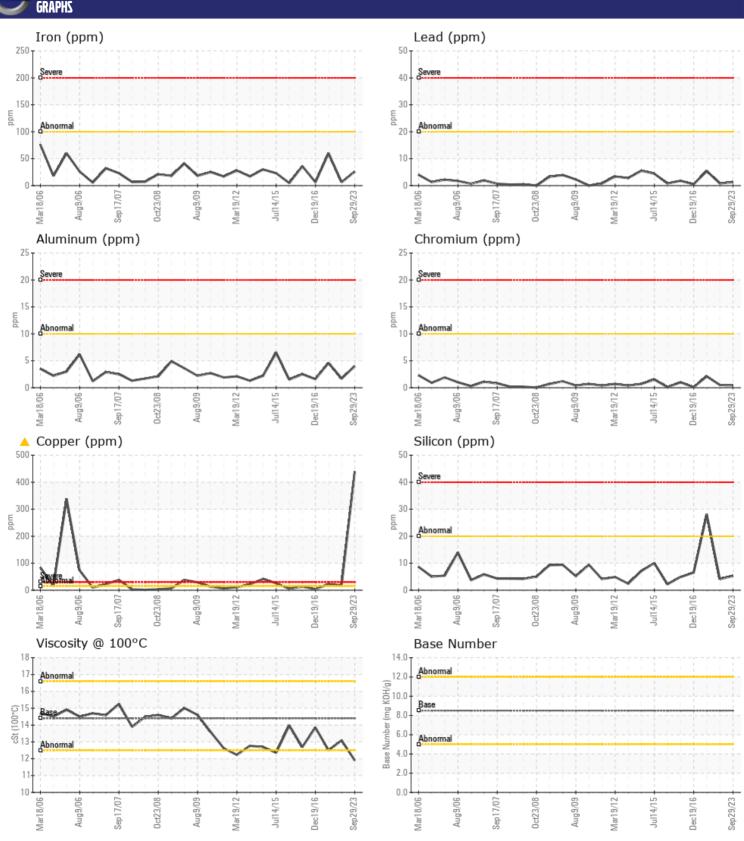
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CONSTRUCTION EQUIPMENT







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