

CONSTRUCTION EQUIPMENT JOHN DEERE 650K 392448 - DIESEL ENGINE



Sample No: VCP446512

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

Job No:

VOLVO				
SAMPLE IN	NFORMATION			
Sample Number	-	VCP446512	VCP420593	
Sample Date		17 May 2024	28 Jul 2023	
Machine Hours		3273	2582	
Oil Hours		0	0	
Oil Changed		Changed	Changed	
Sample Status		SEVERE	ABNORMAL	
OIT CONDI.	TION			
Visc @ 100°C	cSt	14.8	14.8	
Base Number (BN)		6.8	6.4	
Oxidation (PA)	%	116	94	
CARGULOTT (171)	70		31	
VOLVO	INTION			
CONTAMIN	NATION			
Water	%	NEG	NEG	
Soot %	%	1.3	■0.9	
Nitration (PA)	%	121	105	
Sulfation (PA)	%	79	66	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	<1.0	
Silicon	ppm	■14	1 1	
Sodium	ppm	■ 4	5	
Potassium	ppm	■4	2	
VOLVO				
WEAR ME	TALS			
Iron	ppm	<u></u> 485	<u> </u>	
Copper	ppm	△ 38	▲ 38	
Lead	ppm	▲ 124	4 99	
Tin	ppm	<u> 4</u>	3	
Aluminum	ppm	10	7	
Chromium	ppm	■ 3	2	
Molybdenum	ppm	■75	7 0	
Nickel	ppm	2	1	
Titanium	ppm	2	2	
Silver	ppm	■<1	- <1	
Manganese	ppm	■2	2	
Vanadium	ppm	<1	<1	
ADDITIVE:	5			
Calcium	ppm	2024	□2007	
Magnesium	ppm	602	617	
Zinc	ppm	1340	□ 1338	
Phosphorus	ppm	1060	988	
Barium	ppm	■ 0	0	
Darium	44			



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Diagnosis

Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Cylinder, crank, or cam shaft wear is indicated. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VOLVO0090 **Unique No:** 11035302 Signed: Sean Felton Report Date: 21 May 2024

ppm

Boron



CONSTRUCTION EQUIPMENT





