

CONSTRUCTION EQUIPMENT 24245 VOLVO A40G 352430 - DIESEL ENGINE



Sample No: VCP433231

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

Job No: 24245

ample Number	-	VCP433231	VCP384007	VCP365510	VCP378370
Sample Date		24 Oct 2023	08 Jun 2023	14 Sep 2022	19 May 2022
Machine Hours		1069	4133	3532	3064
Oil Hours		1000	1000	0	0
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		SEVERE	ABNORMAL	SEVERE	ABNORMAL
OIT CONDI.	TION				
				- 10.0	- 10.0
Visc @ 100°C	cSt	13.6	12.8	12.8	12.8
Base Number (BN)		6.9	■10.2	■10.8	7.8
Oxidation (PA)	%	86	80	60	57
VOLVO					
CONTAMIN	IATION				
Soot %	%	□0.8	□0.5	□0.2	□0.2
Nitration (PA)	%	94	71	84	69
Sulfation (PA)	%	64	66	58	51
Glycol	%	NEG	NEG	0.10	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■18	7	1 2	5
Sodium	ppm	6	<u>▲</u> 208	<u> </u>	<u>^</u> 225
Potassium	ppm	■3	▲ 132	<u></u> 418	2 9
	la la con				
VOLVO	rai c				
WEAR ME	IALS				
ron	ppm	62	■18	1 3	■10
Copper	ppm	△ 35	6	2	2
Lead	ppm	■2	 < 1	 <1	
Tin	ppm	4	- <1	 <1	1
Aluminum	ppm	106	■8	2	2
Chromium	ppm	6	- <1	 <1	- <1
Molybdenum	ppm	■31	5 5	△ 96	6 3
Vickel	ppm	■<1	1 1	2	1
Titanium	ppm	<1	0	0	0
Silver	ppm	1	0	0	<1
Manganese	ppm	■ 3	< 1	< 1	<1
Vanadium	ppm	0	0	0	0

1557

515

1122

949

0

32

1069

1165

1000

0

A 877

1118

984

1261

1083

0

8



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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. Note that there appears to be a discrepancy in the total time on this component, when compared to the historical data. Piston, ring and cylinder 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:VOLVO3387Unique No:10715331Signed:Don BaldridgeReport Date:31 Oct 2023

1482

514

1077

927

15

29

ppm

ppm ppm

ppm

ppm

ppm

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus



CONSTRUCTION EQUIPMENT





