



CONSTRUCTION EQUIPMENT

VOLVO A40G 352501 - DIESEL ENGINE



Sample No: VCP433542
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP433542	VCP312588	VCP337377	VCP324311
Sample Date	02 Nov 2023	19 Nov 2021	06 Aug 2021	04 May 2021
Machine Hours	5847	2414	1780	474
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.9	12.7	12.4
Base Number (BN)	mg KOH/g	7.1	---	---	---
Oxidation (PA)	%	82	78	80	87



CONTAMINATION

Soot %	%	0.4	0.2	0.2	0.2
Nitration (PA)	%	88	73	70	72
Sulfation (PA)	%	62	61	62	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	▲ 25	6	8
Sodium	ppm	3	3	2	<1
Potassium	ppm	0	2	0	<1



WEAR METALS

Iron	ppm	9	15	8	10
Copper	ppm	13	2	2	7
Lead	ppm	<1	2	1	1
Tin	ppm	<1	2	0	2
Aluminum	ppm	5	16	2	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	48	38	63	45
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1756	1890	1726	1590
Magnesium	ppm	572	453	531	464
Zinc	ppm	1237	1041	1104	1034
Phosphorus	ppm	938	993	959	894
Barium	ppm	0	0	0	0
Boron	ppm	16	34	32	38

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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: VOLVO0090
Unique No: 10727218
Signed: Wes Davis
Report Date: 07 Nov 2023



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GRAPHS

