



CONSTRUCTION EQUIPMENT

VOLVO A40G 352449 - DIESEL ENGINE



Sample No: VCP412015
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP412015	VCP421346	VCP336706	VCP337368
Sample Date	16 Aug 2023	21 Jul 2023	13 Jan 2022	16 Aug 2021
Machine Hours	7072	6888	3980	2952
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	16.6	12.5	12.6
Base Number (BN)	mg KOH/g	10.4	8.8	10.9	---
Oxidation (PA)	%	76	61	87	84



CONTAMINATION

Soot %	%	0.1	0.2	0.2	0.2
Nitration (PA)	%	51	73	70	62
Sulfation (PA)	%	59	52	65	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	4
Sodium	ppm	2	2	8	3
Potassium	ppm	0	<1	<1	<1



WEAR METALS

Iron	ppm	3	7	5	5
Copper	ppm	<1	2	2	<1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	<1	1	<1	0
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	50	54	47	54
Nickel	ppm	<1	2	2	<1
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	1727	1635	1636	1907
Magnesium	ppm	557	756	490	548
Zinc	ppm	1105	1130	1093	1123
Phosphorus	ppm	923	937	901	1035
Barium	ppm	0	0	0	0
Boron	ppm	59	49	39	57

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: 10615947
Signed: Wes Davis
Report Date: 22 Aug 2023



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VOLVO GRAPHS

