



CONSTRUCTION EQUIPMENT

VOLVO A40G 352449 - DIESEL ENGINE



Sample No: VCP376050
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP376050	VCP412015	VCP421346	VCP336706
Sample Date	25 Oct 2023	16 Aug 2023	21 Jul 2023	13 Jan 2022
Machine Hours	7451	7072	6888	3980
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	12.4	12.5	16.6	12.5
Base Number (BN)	mg KOH/g	9.4	10.4	8.8	10.9
Oxidation (PA)	%	76	76	61	87



CONTAMINATION

Soot %	%	0.2	0.1	0.2	0.2
Nitration (PA)	%	53	51	73	70
Sulfation (PA)	%	58	59	52	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	5
Sodium	ppm	2	2	2	8
Potassium	ppm	0	0	<1	<1

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.



WEAR METALS

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



ADDITIVES

Calcium	ppm	1411	1727	1635	1636
Magnesium	ppm	491	557	756	490
Zinc	ppm	979	1105	1130	1093
Phosphorus	ppm	925	923	937	901
Barium	ppm	4	0	0	0
Boron	ppm	51	59	49	39

Depot: VOLVO0090
Unique No: 10715322
Signed: Wes Davis
Report Date: 31 Oct 2023



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GRAPHS

