



CONSTRUCTION EQUIPMENT

633743 PRIMORIS VOLVO A40G 352509 - DIESEL ENGINE



Sample No: VCP452332
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 633743 PRIMORIS



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SAMPLE INFORMATION

Sample Number	VCP452332	VCP425807	VCP398023	VCP392900
Sample Date	16 Nov 2023	13 Jul 2023	25 Apr 2023	06 Dec 2022
Machine Hours	5500	4873	4282	3689
Oil Hours	500	500	500	500
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	12.2	12.7	12.8	12.9
Base Number (BN)	mg KOH/g	8.9	8.9	9.0	10.3
Oxidation (PA)	%	80	81	84	85



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.4	0.3
Nitration (PA)	%	79	78	83	77
Sulfation (PA)	%	58	60	62	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.8	<1.0	<1.0	<1.0
Silicon	ppm	6	5	4	3
Sodium	ppm	4	2	0	0
Potassium	ppm	0	<1	1	1



WEAR METALS

Iron	ppm	8	8	7	7
Copper	ppm	3	1	2	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	1	1	<1
Aluminum	ppm	2	1	1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	47	44	55	42
Nickel	ppm	2	2	4	2
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1721	1795	1735	1710
Magnesium	ppm	504	529	504	482
Zinc	ppm	1116	1166	1148	1075
Phosphorus	ppm	941	957	953	897
Barium	ppm	0	0	0	0
Boron	ppm	21	21	22	27

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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: VOLVO0093
Unique No: 10833703
Signed: Wes Davis
Report Date: 19 Jan 2024



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GRAPHS

