



CONSTRUCTION EQUIPMENT

SPM634853-10 VOLVO A40G 352237 - DIESEL ENGINE



Sample No: VCP422306
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM634853-10



SAMPLE INFORMATION

Sample Number	VCP422306	VCP421359	VCP422014	VCP385479
Sample Date	30 Nov 2023	23 Aug 2023	07 Jun 2023	14 Mar 2023
Machine Hours	0	1409	906	652
Oil Hours	0	0	0	652
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.2	12.4	10.6
Base Number (BN)	mg KOH/g	9.7	9.1	10.0	10.0
Oxidation (PA)	%	80	74	79	86



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	63	64	58	74
Sulfation (PA)	%	60	57	62	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.3
Silicon	ppm	5	5	7	22
Sodium	ppm	2	13	<1	2
Potassium	ppm	0	2	2	3



WEAR METALS

Iron	ppm	5	7	9	23
Copper	ppm	2	2	6	26
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	1	1	3
Aluminum	ppm	1	2	<1	2
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	46	68	43	38
Nickel	ppm	<1	0	<1	1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	5
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1623	1698	1614	1617
Magnesium	ppm	502	545	474	508
Zinc	ppm	1080	1158	1065	1110
Phosphorus	ppm	869	948	893	895
Barium	ppm	0	0	0	0
Boron	ppm	38	49	46	40

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: 10776805
Signed: Wes Davis
Report Date: 07 Dec 2023



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GRAPHS

