



CONSTRUCTION EQUIPMENT

SWA532551 VOLVO A40G 352345 - DIESEL ENGINE



Sample No: VCP451357
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA532551



SAMPLE INFORMATION

Sample Number	VCP451357	VCP323365	VCP298535	VCP291329
Sample Date	20 May 2024	28 Jun 2021	06 Mar 2021	13 Nov 2020
Machine Hours	4742	1838	1133	513
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.7	12.8	10.9
Base Number (BN)	mg KOH/g	6.3	---	---	---
Oxidation (PA)	%	88	89	86	88

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.3	0.2	0.2
Nitration (PA)	%	103	82	73	68
Sulfation (PA)	%	69	69	67	69
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.3
Silicon	ppm	19	6	8	19
Sodium	ppm	15	2	2	4
Potassium	ppm	4	<1	0	6

WEAR METALS

Iron	ppm	44	12	13	30
Copper	ppm	17	6	21	111
Lead	ppm	2	<1	3	1
Tin	ppm	2	1	0	3
Aluminum	ppm	12	0	2	0
Chromium	ppm	2	<1	<1	<1
Molybdenum	ppm	59	44	37	41
Nickel	ppm	4	3	7	4
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	1	<1	0	0
Manganese	ppm	2	<1	1	4
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1654	1664	1597	1461
Magnesium	ppm	520	508	464	445
Zinc	ppm	1116	1101	1015	1003
Phosphorus	ppm	939	924	871	878
Barium	ppm	0	0	0	0
Boron	ppm	10	41	25	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: 11050426
Signed: Wes Davis
Report Date: 30 May 2024



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GRAPHS

