



CONSTRUCTION EQUIPMENT

SWA534849-10 VOLVO A40G 342112 - DIESEL ENGINE



Sample No: VCP455281
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA534849-10



SAMPLE INFORMATION

Sample Number	VCP455281	VCP336727	VCP323492	VCP299513
Sample Date	27 Apr 2024	04 Jan 2022	16 Jun 2021	07 Jan 2021
Machine Hours	7700	7800	6149	5369
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.2	12.9	12.7	13.0
Base Number (BN)	mg KOH/g	10.5	9.7	---	---
Oxidation (PA)	%	78	86	86	81

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.7	0.4	0.5
Nitration (PA)	%	47	83	84	62
Sulfation (PA)	%	60	65	65	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.5	<1.0	<1.0	<1.0
Silicon	ppm	5	9	6	7
Sodium	ppm	2	3	3	3
Potassium	ppm	0	0	<1	0



WEAR METALS

Iron	ppm	16	20	14	9
Copper	ppm	8	2	2	8
Lead	ppm	0	1	<1	1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	6	7	0	2
Chromium	ppm	0	1	<1	<1
Molybdenum	ppm	41	36	43	39
Nickel	ppm	0	2	0	<1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1736	1446	1678	1732
Magnesium	ppm	518	435	462	507
Zinc	ppm	1103	1003	1053	1128
Phosphorus	ppm	952	797	938	929
Barium	ppm	0	0	0	0
Boron	ppm	63	21	14	36

Depot: VOLVO0092
Unique No: 11006051
Signed: Wes Davis
Report Date: 02 May 2024



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GRAPHS

