



CONSTRUCTION EQUIPMENT

SWA398902-40 VOLVO A40G 352396 - DIESEL ENGINE



Sample No: VCP434300
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA398902-40



SAMPLE INFORMATION

Sample Number	VCP434300	VCP328973	VCP305187	VCP299668
Sample Date	08 Nov 2023	30 Sep 2021	01 Mar 2021	07 Dec 2020
Machine Hours	4271	2397	1556	1090
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.94	12.9	12.7
Base Number (BN)	mg KOH/g	8.7	---	---	---
Oxidation (PA)	%	83	85	80	87



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.2	0.2
Nitration (PA)	%	81	87	64	76
Sulfation (PA)	%	61	64	64	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	11	7	6	17
Sodium	ppm	24	60	0	3
Potassium	ppm	2	1	0	0



WEAR METALS

Iron	ppm	36	14	6	13
Copper	ppm	2	3	4	12
Lead	ppm	<1	1	<1	3
Tin	ppm	<1	2	<1	0
Aluminum	ppm	7	5	0	12
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	57	44	42	39
Nickel	ppm	32	2	1	1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	1



ADDITIVES

Calcium	ppm	1637	1699	1846	1749
Magnesium	ppm	500	527	483	496
Zinc	ppm	1065	1107	1114	1053
Phosphorus	ppm	923	977	1044	893
Barium	ppm	0	0	0	0
Boron	ppm	27	22	42	24

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Valve wear is indicated. 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 acceptable for the time in service.

Depot: VOLVO0090
Unique No: 10750518
Signed: Jonathan Hester
Report Date: 22 Nov 2023



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GRAPHS

