



CONSTRUCTION EQUIPMENT

SWA-378858 VOLVO A40G 341404 - DIESEL ENGINE



Sample No: VCP433793
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA-378858



SAMPLE INFORMATION

Sample Number	VCP433793	VCP316851	VCP258442	VCP253329
Sample Date	03 Oct 2023	29 Jun 2021	21 Oct 2019	08 Aug 2019
Machine Hours	8091	6782	5291	4839
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT COMPANY - METRO WEST
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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.8	12.4	12.1
Base Number (BN)	mg KOH/g	10.4	---	---	---
Oxidation (PA)	%	73	82	75	76



CONTAMINATION

Soot %	%	0.1	0.1	0.2	0.2
Nitration (PA)	%	46	52	60	61
Sulfation (PA)	%	58	65	58	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	5	4	4
Sodium	ppm	0	2	3	2
Potassium	ppm	<1	<1	1	0



WEAR METALS

Iron	ppm	5	4	5	6
Copper	ppm	0	<1	<1	2
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	3	1	<1	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	44	37	53	50
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1573	1726	1777	1511
Magnesium	ppm	533	471	559	470
Zinc	ppm	1123	1120	937	817
Phosphorus	ppm	941	948	727	751
Barium	ppm	0	0	0	0
Boron	ppm	62	92	54	48

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: VOLVO2990
Unique No: 10685526
Signed: Wes Davis
Report Date: 10 Oct 2023



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GRAPHS

