



CONSTRUCTION EQUIPMENT

634367 VOLVO A40G 352842 - DIESEL ENGINE



Sample No: VCP440785
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 634367



SAMPLE INFORMATION

Sample Number	VCP440785	VCP414671	VCP424148	VCP386350
Sample Date	27 Nov 2023	11 Sep 2023	11 May 2023	13 Oct 2022
Machine Hours	4010	3555	3070	1984
Oil Hours	500	0	500	500
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.3	12.4	12.7
Base Number (BN)	mg KOH/g	10.2	9.2	8.8	10.1
Oxidation (PA)	%	82	79	84	67

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.7	0.2	0.2
Nitration (PA)	%	63	67	66	72
Sulfation (PA)	%	60	63	60	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.7	<1.0
Silicon	ppm	5	4	6	6
Sodium	ppm	2	3	2	<1
Potassium	ppm	0	1	1	0



WEAR METALS

Iron	ppm	5	14	6	6
Copper	ppm	1	17	1	3
Lead	ppm	0	<1	0	<1
Tin	ppm	<1	<1	1	<1
Aluminum	ppm	1	4	2	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	40	47	47	58
Nickel	ppm	1	<1	1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1716	1818	1628	1247
Magnesium	ppm	493	532	525	882
Zinc	ppm	1116	1199	1150	1216
Phosphorus	ppm	968	969	947	1038
Barium	ppm	0	0	0	0
Boron	ppm	37	29	40	3

Depot: RIPTAM
Unique No: 10833690
Signed: Wes Davis
Report Date: 18 Jan 2024



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GRAPHS

