



CONSTRUCTION EQUIPMENT

VOLVO A40G 342561 - DIESEL ENGINE



Sample No: VCP443018
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP443018	VCP424420	VCP363461	VCP345748
Sample Date	06 Jun 2024	23 May 2023	27 Apr 2022	10 Jan 2022
Machine Hours	8860	7008	6286	5636
Oil Hours	0	0	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RIPA AND ASSOCIATES
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	11.9	12.9	12.8	12.6
Base Number (BN)	mg KOH/g	8.5	8.4	10.0	10.3
Oxidation (PA)	%	78	80	83	89

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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	0.2	0.2	0.3
Nitration (PA)	%	68	70	72	78
Sulfation (PA)	%	59	61	61	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	2.5	<1.0	<1.0	<1.0
Silicon	ppm	6	5	5	6
Sodium	ppm	18	<1	2	2
Potassium	ppm	15	4	1	0



WEAR METALS

Iron	ppm	11	10	8	10
Copper	ppm	13	3	2	3
Lead	ppm	<1	<1	<1	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	4	2	3	3
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	50	45	47	40
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1697	1562	1776	1784
Magnesium	ppm	431	441	477	516
Zinc	ppm	1098	999	1183	1102
Phosphorus	ppm	886	892	985	974
Barium	ppm	0	0	0	0
Boron	ppm	36	25	32	89

Depot: RIPTAM
Unique No: 11073545
Signed: Wes Davis
Report Date: 17 Jun 2024



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VOLVO GRAPHS

