



CONSTRUCTION EQUIPMENT

VOLVO A40G 342 176 - DIESEL ENGINE



Sample No: VCP437065
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP437065	VCP435550	VCP411547	VCP424482
Sample Date	22 Mar 2024	19 Dec 2023	01 Aug 2023	09 May 2023
Machine Hours	8750	8257	0	0
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	N/A	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	12.3	12.1	12.3	12.4
Base Number (BN)	mg KOH/g	8.5	9.3	10.1	9.9
Oxidation (PA)	%	77	79	81	72

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	0.2	0.1	0.1
Nitration (PA)	%	70	65	62	68
Sulfation (PA)	%	57	60	61	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	4	7	11
Sodium	ppm	3	4	0	3
Potassium	ppm	<1	2	4	9



WEAR METALS

Iron	ppm	10	8	14	31
Copper	ppm	<1	<1	<1	1
Lead	ppm	<1	<1	<1	1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	4	5	4	3
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	42	40	49	44
Nickel	ppm	0	0	<1	1
Titanium	ppm	0	0	1	8
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1567	1546	1941	1557
Magnesium	ppm	531	531	588	537
Zinc	ppm	1096	1152	1294	1094
Phosphorus	ppm	949	879	1111	932
Barium	ppm	0	0	2	0
Boron	ppm	38	29	35	32

Depot: RIPTAM
Unique No: 11043997
Signed: Wes Davis
Report Date: 23 May 2024



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VOLVO GRAPHS

