



CONSTRUCTION EQUIPMENT

RSO035268 VOLVO A45G 352006 - DIESEL ENGINE



Sample No: VCP415138
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: RSO035268



SAMPLE INFORMATION

Sample Number	VCP415138	VCP419622	VCP420473	VCP381496
Sample Date	08 Sep 2023	26 Jun 2023	19 Apr 2023	25 Jan 2023
Machine Hours	6302	0	0	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

COWIN EQUIPMENT COMPANY

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.4	12.3	12.6
Base Number (BN)	mg KOH/g	9.5	9.8	9.8	10.1
Oxidation (PA)	%	74	83	81	80

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

Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	58	55	59	59
Sulfation (PA)	%	58	61	60	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	1.7	<1.0
Silicon	ppm	6	4	4	5
Sodium	ppm	1	2	2	2
Potassium	ppm	<1	<1	0	0



WEAR METALS

Iron	ppm	3	4	5	5
Copper	ppm	<1	<1	0	<1
Lead	ppm	<1	0	0	1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	3	<1	1	1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	46	43	42	39
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1702	1730	1672	1756
Magnesium	ppm	504	532	531	484
Zinc	ppm	1138	1171	1170	1052
Phosphorus	ppm	957	961	943	912
Barium	ppm	0	0	0	0
Boron	ppm	41	50	52	50

Depot: VOLV08247
Unique No: 10656235
Signed: Wes Davis
Report Date: 20 Sep 2023



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GRAPHS

