



CONSTRUCTION EQUIPMENT

SWA432421 COT VOLVO EW160 323426 - DIESEL ENGINE



Sample No: VCP428685
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA432421 COT



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SAMPLE INFORMATION

Sample Number	VCP428685	VCP414752	VCP421233	VCP395345
Sample Date	08 Dec 2023	01 Sep 2023	05 Apr 2023	05 Jan 2023
Machine Hours	5787	5198	4721	4196
Oil Hours	700	0	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	12.9	12.6	12.7	12.8
Base Number (BN)	mg KOH/g	10.5	10.5	8.9	10.0
Oxidation (PA)	%	80	80	76	72



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	58	57	53	58
Sulfation (PA)	%	58	58	53	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	6	6	5
Sodium	ppm	2	4	3	2
Potassium	ppm	0	<1	2	3



WEAR METALS

Iron	ppm	6	2	5	5
Copper	ppm	1	2	<1	<1
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	3	2	0	1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	38	43	48	46
Nickel	ppm	0	0	<1	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1705	1680	1576	1440
Magnesium	ppm	468	545	499	594
Zinc	ppm	1026	1198	1065	1125
Phosphorus	ppm	894	980	893	919
Barium	ppm	0	0	2	0
Boron	ppm	38	36	51	30

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: VOLVO0093
Unique No: 10845921
Signed: Wes Davis
Report Date: 24 Jan 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

