



CONSTRUCTION EQUIPMENT

SWA364304 VOLVO EC480E 311299 - DIESEL ENGINE



Sample No: VCP433574
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA364304



SAMPLE INFORMATION

Sample Number	VCP433574	VCP396265	VCP310051	VCP314297
Sample Date	19 Sep 2023	31 Mar 2023	28 Jul 2021	30 Apr 2021
Machine Hours	5873	5451	2904	2452
Oil Hours	0	0	0	500
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT

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OIL CONDITION

Visc @ 100°C	cSt	12.3	12.7	11.5	12.5
Base Number (BN)	mg KOH/g	9.8	9.2	---	---
Oxidation (PA)	%	82	83	82	90

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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 %	%	0.1	0.2	0.1	0.1
Nitration (PA)	%	58	71	67	78
Sulfation (PA)	%	61	62	61	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.6	<1.0	0.7	<1.0
Silicon	ppm	4	10	4	4
Sodium	ppm	2	5	2	2
Potassium	ppm	<1	1	<1	<1



WEAR METALS

Iron	ppm	3	8	5	5
Copper	ppm	<1	<1	1	2
Lead	ppm	0	<1	0	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	0	<1	0	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	40	68	41	39
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1720	2723	1670	1666
Magnesium	ppm	518	827	502	497
Zinc	ppm	1079	1861	1079	1118
Phosphorus	ppm	866	1505	942	940
Barium	ppm	0	0	0	0
Boron	ppm	46	62	43	40

Depot: VOLV00142
Unique No: 10660833
Signed: Wes Davis
Report Date: 27 Sep 2023



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GRAPHS

