



CONSTRUCTION EQUIPMENT

X58974 VOLVO EC250EL 314100 - DIESEL ENGINE



Sample No: VCP406839
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X58974



SAMPLE INFORMATION

Sample Number	VCP406839	VCP408062	VCP379170	VCP320055
Sample Date	08 Dec 2023	15 Jun 2023	30 Aug 2022	11 Aug 2021
Machine Hours	3314	2382	1707	1192
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	13.2	13.3	13.6
Base Number (BN)	mg KOH/g	10.5	10.3	10.8	---
Oxidation (PA)	%	82	88	91	82

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Test for glycol is negative. 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 %	%	0.1	0.2	0.2	0.2
Nitration (PA)	%	51	63	70	65
Sulfation (PA)	%	61	63	68	61
Glycol	%	0.0	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	7	8
Sodium	ppm	1	2	3	2
Potassium	ppm	<1	4	14	12



WEAR METALS

Iron	ppm	4	9	12	12
Copper	ppm	1	3	4	6
Lead	ppm	<1	<1	<1	1
Tin	ppm	0	1	1	2
Aluminum	ppm	2	4	10	8
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	41	38	40
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1660	1727	1719	1858
Magnesium	ppm	440	527	481	507
Zinc	ppm	1151	1132	942	971
Phosphorus	ppm	940	934	764	814
Barium	ppm	0	0	1	0
Boron	ppm	47	41	50	35

Depot: SCOSAI
Unique No: 10789534
Signed: Jonathan Hester
Report Date: 21 Dec 2023



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GRAPHS

