



CONSTRUCTION EQUIPMENT

X59715 VOLVO EC250DL 210174 - DIESEL ENGINE



Sample No: VCP442723
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X59715



SAMPLE INFORMATION

Sample Number	VCP442723	VCP426013	VCP384336	VCP384606
Sample Date	07 Jun 2024	10 Nov 2023	06 Apr 2023	08 Dec 2022
Machine Hours	10577	10110	9355	8857
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.8	13.7	13.5
Base Number (BN)	mg KOH/g	10.1	9.9	10.6	11.7
Oxidation (PA)	%	80	85	81	88

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.7	0.4	0.5
Nitration (PA)	%	63	72	64	68
Sulfation (PA)	%	62	65	63	69
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	8	4
Sodium	ppm	2	4	3	0
Potassium	ppm	4	8	10	2



WEAR METALS

Iron	ppm	25	33	15	14
Copper	ppm	<1	2	0	1
Lead	ppm	<1	<1	0	<1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	4	5	3	6
Chromium	ppm	<1	3	0	<1
Molybdenum	ppm	37	43	41	43
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	2074	1746	1819	1810
Magnesium	ppm	467	522	477	451
Zinc	ppm	1215	1192	1181	1120
Phosphorus	ppm	1020	962	942	929
Barium	ppm	0	0	0	0
Boron	ppm	56	25	51	42

Depot: SCOSAI
Unique No: 11074832
Signed: Sean Felton
Report Date: 14 Jun 2024



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GRAPHS

