



CONSTRUCTION EQUIPMENT

23628 VOLVO EC350E 314352 - DIESEL ENGINE



Sample No: VCP420879
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 23628



SAMPLE INFORMATION

Sample Number	VCP420879	VCP371889	VCP383995	VCP371912
Sample Date	24 Jun 2023	10 Feb 2023	21 Oct 2022	07 Oct 2022
Machine Hours	1806	1163	0	680
Oil Hours	114	500	0	0
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.1	12.7	10.1
Base Number (BN)	mg KOH/g	9.2	9.1	11.5	5.9
Oxidation (PA)	%	87	80	84	70

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 %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	74	67	53	89
Sulfation (PA)	%	64	62	65	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.6	<1.0	0.8
Silicon	ppm	5	6	6	26
Sodium	ppm	2	2	2	1
Potassium	ppm	<1	0	1	5



WEAR METALS

Iron	ppm	5	6	3	13
Copper	ppm	10	42	36	241
Lead	ppm	0	2	<1	2
Tin	ppm	<1	2	<1	4
Aluminum	ppm	<1	<1	<1	3
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	44	51	45	88
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	3
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1754	1775	1707	2137
Magnesium	ppm	533	449	428	51
Zinc	ppm	1200	1165	1091	1210
Phosphorus	ppm	965	937	931	995
Barium	ppm	14	0	0	0
Boron	ppm	30	32	58	24

Depot: OLTNOR
Unique No: 10538094
Signed: Wes Davis
Report Date: 02 Jul 2023



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GRAPHS

