



CONSTRUCTION EQUIPMENT

23675 VOLVO EC250EL 314118 - DIESEL ENGINE



Sample No: VCP404628
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 23675



SAMPLE INFORMATION

Sample Number	VCP404628	VCP364954	VCP371900	VCP339786
Sample Date	29 Jun 2023	09 Jan 2023	09 Aug 2022	01 Feb 2022
Machine Hours	2070	1542	1077	523
Oil Hours	1000	1000	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	13.5	13.4	13.1	12.5
Base Number (BN)	mg KOH/g	10.6	10.7	11.1	10.8
Oxidation (PA)	%	88	83	83	73

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 %	%	0.3	0.2	0.2	0.1
Nitration (PA)	%	68	63	68	63
Sulfation (PA)	%	64	62	63	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	14	8	10
Sodium	ppm	3	<1	0	4
Potassium	ppm	7	12	16	26



WEAR METALS

Iron	ppm	15	12	16	14
Copper	ppm	2	2	3	4
Lead	ppm	0	<1	<1	<1
Tin	ppm	1	2	2	2
Aluminum	ppm	6	10	11	11
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	41	42	47	41
Nickel	ppm	0	<1	0	2
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	<1	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1774	1755	1672	1836
Magnesium	ppm	517	516	555	589
Zinc	ppm	1103	1166	1173	1112
Phosphorus	ppm	911	918	981	954
Barium	ppm	0	0	0	0
Boron	ppm	39	34	33	52

Depot: VOLVO3387
Unique No: 10547691
Signed: Wes Davis
Report Date: 07 Jul 2023



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GRAPHS

