



CONSTRUCTION EQUIPMENT

24567 VOLVO EC250EL 314118 - DIESEL ENGINE



Sample No: VCP429280
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 24567



SAMPLE INFORMATION

Sample Number	VCP429280	VCP404628	VCP364954	VCP371900
Sample Date	14 Dec 2023	29 Jun 2023	09 Jan 2023	09 Aug 2022
Machine Hours	2610	2070	1542	1077
Oil Hours	1000	1000	1000	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.5	13.4	13.1
Base Number (BN)	mg KOH/g	10.2	10.6	10.7	11.1
Oxidation (PA)	%	85	88	83	83

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.2	0.2
Nitration (PA)	%	66	68	63	68
Sulfation (PA)	%	62	64	62	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	9	14	8
Sodium	ppm	2	3	<1	0
Potassium	ppm	15	7	12	16



WEAR METALS

Iron	ppm	12	15	12	16
Copper	ppm	2	2	2	3
Lead	ppm	0	0	<1	<1
Tin	ppm	1	1	2	2
Aluminum	ppm	10	6	10	11
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	41	42	47
Nickel	ppm	0	0	<1	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1694	1774	1755	1672
Magnesium	ppm	544	517	516	555
Zinc	ppm	1155	1103	1166	1173
Phosphorus	ppm	894	911	918	981
Barium	ppm	0	0	0	0
Boron	ppm	31	39	34	33

Depot: VOLVO3387
Unique No: 10792845
Signed: Jonathan Hester
Report Date: 20 Dec 2023



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GRAPHS

