



CONSTRUCTION EQUIPMENT

729087 RENTAL VOLVO EC480E 315 141 - DIESEL ENGINE



Sample No: VCP449964
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 729087 RENTAL



SAMPLE INFORMATION

Sample Number	VCP449964	VCP453872	VCP436805	VCP440721
Sample Date	07 Jun 2024	20 Mar 2024	27 Jan 2024	23 Dec 2023
Machine Hours	3535	3020	2449	2130
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.6	12.2	12.6
Base Number (BN)	mg KOH/g	8.7	8.2	8.9	8.4
Oxidation (PA)	%	87	90	81	84



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	73	78	61	72
Sulfation (PA)	%	63	61	60	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.8	<1.0
Silicon	ppm	9	7	6	8
Sodium	ppm	0	2	2	2
Potassium	ppm	1	0	2	0



WEAR METALS

Iron	ppm	6	6	3	5
Copper	ppm	2	2	2	4
Lead	ppm	<1	0	1	<1
Tin	ppm	<1	0	<1	2
Aluminum	ppm	2	1	2	2
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	39	41	40	43
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1592	1777	1567	1778
Magnesium	ppm	484	516	488	563
Zinc	ppm	1093	1108	1086	1159
Phosphorus	ppm	850	948	928	974
Barium	ppm	0	0	0	0
Boron	ppm	18	20	35	21

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.

Depot: VOLVO0096
Unique No: 11077122
Signed: Don Baldrige
Report Date: 17 Jun 2024



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GRAPHS

