



CONSTRUCTION EQUIPMENT

688640 RENTALS VOLVO EC480E 315141 - DIESEL ENGINE



Sample No: VCP453872
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 688640 RENTALS



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SAMPLE INFORMATION

Sample Number	VCP453872	VCP436805	VCP440721	VCP412200
Sample Date	20 Mar 2024	27 Jan 2024	23 Dec 2023	16 Aug 2023
Machine Hours	3020	2449	2130	1133
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION



OIL CONDITION

Visc @ 100°C	cSt	12.6	12.2	12.6	12.2
Base Number (BN)	mg KOH/g	8.2	8.9	8.4	7.2
Oxidation (PA)	%	90	81	84	86



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	78	61	72	77
Sulfation (PA)	%	61	60	59	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.8	<1.0	<1.0
Silicon	ppm	7	6	8	16
Sodium	ppm	2	2	2	2
Potassium	ppm	0	2	0	<1



WEAR METALS

Iron	ppm	6	3	5	8
Copper	ppm	2	2	4	63
Lead	ppm	0	1	<1	0
Tin	ppm	0	<1	2	<1
Aluminum	ppm	1	2	2	2
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	41	40	43	46
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1777	1567	1778	1779
Magnesium	ppm	516	488	563	481
Zinc	ppm	1108	1086	1159	1151
Phosphorus	ppm	948	928	974	917
Barium	ppm	0	0	0	0
Boron	ppm	20	35	21	12

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: 10941520
Signed: Wes Davis
Report Date: 26 Mar 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

