



CONSTRUCTION EQUIPMENT

661680 ALTA RENTS VOLVO EC480E 315141 - DIESEL ENGINE



Sample No: VCP436805
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 661680 ALTA RENTS



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SAMPLE INFORMATION

Sample Number	VCP436805	VCP440721	VCP412200	VCP422293
Sample Date	27 Jan 2024	23 Dec 2023	16 Aug 2023	23 May 2023
Machine Hours	2449	2130	1133	544
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	ATTENTION



OIL CONDITION

Visc @ 100°C	cSt	12.2	12.6	12.2	10.8
Base Number (BN)	mg KOH/g	8.9	8.4	7.2	4.1
Oxidation (PA)	%	81	84	86	69



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	61	72	77	83
Sulfation (PA)	%	60	59	63	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.8	<1.0	<1.0	0.8
Silicon	ppm	6	8	16	28
Sodium	ppm	2	2	2	1
Potassium	ppm	2	0	<1	4



WEAR METALS

Iron	ppm	3	5	8	13
Copper	ppm	2	4	63	204
Lead	ppm	1	<1	0	<1
Tin	ppm	<1	2	<1	2
Aluminum	ppm	2	2	2	2
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	40	43	46	88
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	2
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1567	1778	1779	2214
Magnesium	ppm	488	563	481	20
Zinc	ppm	1086	1159	1151	1146
Phosphorus	ppm	928	974	917	932
Barium	ppm	0	0	0	2
Boron	ppm	35	21	12	15

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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: 10857627
Signed: Wes Davis
Report Date: 02 Feb 2024



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GRAPHS

