



CONSTRUCTION EQUIPMENT

VOLVO EC480EL 311198 - DIESEL ENGINE



Sample No: VCP0007892
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP0007892	VCP312584	VCP318215	VCP310318
Sample Date	24 Apr 2024	20 Nov 2021	05 Aug 2021	22 Apr 2021
Machine Hours	0	4351	3696	3018
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	N/A	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.3	13.8	12.6
Base Number (BN)	mg KOH/g	10.5	---	---	---
Oxidation (PA)	%	74	82	83	87



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	45	80	74	67
Sulfation (PA)	%	58	61	60	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.9	<1.0	<1.0
Silicon	ppm	9	8	9	10
Sodium	ppm	2	<1	2	2
Potassium	ppm	2	0	<1	0



WEAR METALS

Iron	ppm	8	6	7	5
Copper	ppm	2	1	2	1
Lead	ppm	<1	<1	<1	1
Tin	ppm	1	<1	<1	0
Aluminum	ppm	4	<1	0	2
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	38	34	60	40
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1755	1792	1720	1713
Magnesium	ppm	480	433	514	524
Zinc	ppm	1125	976	1089	1088
Phosphorus	ppm	957	900	946	909
Barium	ppm	2	0	0	0
Boron	ppm	74	15	24	26

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: VOLVO0092
Unique No: 10996715
Signed: Wes Davis
Report Date: 28 Apr 2024



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GRAPHS

