



CONSTRUCTION EQUIPMENT

SWM606787 VOLVO EC480EL 311110 - DIESEL ENGINE



Sample No: VCP408709
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWM606787



SAMPLE INFORMATION

Sample Number	VCP408709	VCP307711	VCP284613	VCP272687
Sample Date	12 Sep 2023	07 Jun 2021	27 Jun 2020	21 Apr 2020
Machine Hours	5730	0	3255	2667
Oil Hours	5730	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	13.1	12.4	12.7
Base Number (BN)	mg KOH/g	10.0	---	---	---
Oxidation (PA)	%	73	43	76	75



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.2
Nitration (PA)	%	45	59	79	79
Sulfation (PA)	%	57	50	60	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	3	7	19
Sodium	ppm	3	3	3	3
Potassium	ppm	<1	<1	<1	9



WEAR METALS

Iron	ppm	4	4	6	12
Copper	ppm	2	3	5	14
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	<1	0	0
Aluminum	ppm	1	0	1	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	45	9	30	24
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1848	2063	1530	1722
Magnesium	ppm	552	91	575	680
Zinc	ppm	1183	970	909	867
Phosphorus	ppm	976	826	792	708
Barium	ppm	0	0	0	0
Boron	ppm	59	10	20	18

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: VOLVO0090
Unique No: 10649656
Signed: Wes Davis
Report Date: 20 Sep 2023



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GRAPHS

