



CONSTRUCTION EQUIPMENT

SWA305495 VOLVO EC480E 311106 - DIESEL ENGINE



Sample No: VCP400658
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA305495



SAMPLE INFORMATION

Sample Number	VCP400658	VCP232261	VCP234498	---
Sample Date	09 Aug 2023	01 Feb 2020	31 May 2019	---
Machine Hours	0	2929	1104	---
Oil Hours	0	0	500	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	ABNORMAL	NORMAL	ABNORMAL	---

ALTA EQUIPMENT

5985 COURT STREET ROAD
 SYRACUSE, NY
 US 13206
 Contact: JIM STRIGLE
 JIM.STRIGLE@ALTG.COM
 T: (315)437-2611
 F: (315)434-9471



OIL CONDITION

Visc @ 100°C	cSt	---	12.5	12.2	---
Base Number (BN)	mg KOH/g	8.3	---	---	---
Oxidation (PA)	%	58	76	89	---



CONTAMINATION

Water	%	0.476	---	---	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	65	71	68	---
Sulfation (PA)	%	48	58	62	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	2.3	<1.0	<1.0	---
Silicon	ppm	3	7	8	---
Sodium	ppm	0	3	0	---
Potassium	ppm	1	7	<1	---



WEAR METALS

Iron	ppm	19	5	6	---
Copper	ppm	2	17	240	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	1	1	2	---
Chromium	ppm	0	<1	0	---
Molybdenum	ppm	61	26	36	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	<1	0	0	---
Manganese	ppm	<1	<1	1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1736	1577	1683	---
Magnesium	ppm	416	601	438	---
Zinc	ppm	1211	902	834	---
Phosphorus	ppm	1013	791	610	---
Barium	ppm	2	0	<1	---
Boron	ppm	<1	23	19	---

Diagnosis

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform a viscosity test. All component wear rates are normal. There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VOLVO0142
Unique No: 10603055
Signed: Jonathan Hester
Report Date: 15 Aug 2023



CONSTRUCTION EQUIPMENT



GRAPHS

