



CONSTRUCTION EQUIPMENT

SWO-072947 VOLVO EC480EL 315428 - DIESEL ENGINE



Sample No: VCP443978
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-072947



SAMPLE INFORMATION

Sample Number	VCP443978	VCP447586	---	---
Sample Date	21 Jun 2024	19 Dec 2023	---	---
Machine Hours	1013	482	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 100°C	cSt	12.0	10.9	---	---
Base Number (BN)	mg KOH/g	7.1	4.8	---	---
Oxidation (PA)	%	86	70	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	77	84	---	---
Sulfation (PA)	%	62	57	---	---
Glycol	%	NEG	0.0	---	---
Fuel	%	<1.0	0.9	---	---
Silicon	ppm	7	15	---	---
Sodium	ppm	1	2	---	---
Potassium	ppm	2	1	---	---



WEAR METALS

Iron	ppm	3	8	---	---
Copper	ppm	77	224	---	---
Lead	ppm	0	4	---	---
Tin	ppm	<1	2	---	---
Aluminum	ppm	2	2	---	---
Chromium	ppm	<1	0	---	---
Molybdenum	ppm	48	84	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	1711	1974	---	---
Magnesium	ppm	468	134	---	---
Zinc	ppm	1164	1126	---	---
Phosphorus	ppm	900	969	---	---
Barium	ppm	0	0	---	---
Boron	ppm	21	25	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: SAIBIR
Unique No: 11098957
Signed: Jonathan Hester
Report Date: 26 Jun 2024



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GRAPHS

