



CONSTRUCTION EQUIPMENT

VOLVO EC480E 314844 - DIESEL ENGINE



Sample No: VCP446529
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
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SAMPLE INFORMATION

Sample Number	VCP446529	VCP433518	VCP390765	---
Sample Date	15 Mar 2024	04 Dec 2023	14 Oct 2022	---
Machine Hours	3334	2613	528	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	ATTENTION	ABNORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	11.7	12.3	10.5	---
Base Number (BN)	mg KOH/g	8.0	7.2	6.2	---
Oxidation (PA)	%	84	85	71	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	78	82	88	---
Sulfation (PA)	%	60	62	61	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.7	---
Silicon	ppm	11	12	22	---
Sodium	ppm	<1	2	0	---
Potassium	ppm	1	0	0	---



WEAR METALS

Iron	ppm	10	9	14	---
Copper	ppm	2	7	217	---
Lead	ppm	1	2	2	---
Tin	ppm	1	1	3	---
Aluminum	ppm	2	1	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	45	46	78	---
Nickel	ppm	3	5	<1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	3	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	1683	1490	1994	---
Magnesium	ppm	497	635	162	---
Zinc	ppm	1131	1111	1122	---
Phosphorus	ppm	908	843	926	---
Barium	ppm	0	0	0	---
Boron	ppm	17	6	19	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO0090
Unique No: 10936256
Signed: Don Baldrige
Report Date: 21 Mar 2024



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GRAPHS

