



CONSTRUCTION EQUIPMENT

354477 VOLVO EC300ELR 314370 - DIESEL ENGINE



Sample No: VCP415960
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 354477



SAMPLE INFORMATION

Sample Number	VCP415960	VCP375791	VCP306994	---
Sample Date	07 Sep 2023	06 Jun 2022	23 Mar 2021	---
Machine Hours	1625	99	456	---
Oil Hours	0	0	0	---
Oil Changed	Changed	N/A	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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	12.9	12.9	12.9	---
Base Number (BN)	mg KOH/g	9.5	10.1	---	---
Oxidation (PA)	%	79	73	46	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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.



CONTAMINATION

Soot %	%	0.2	0.1	0.1	---
Nitration (PA)	%	63	67	63	---
Sulfation (PA)	%	60	59	53	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	8	8	13	---
Sodium	ppm	3	2	3	---
Potassium	ppm	10	3	3	---



WEAR METALS

Iron	ppm	11	10	12	---
Copper	ppm	4	6	15	---
Lead	ppm	1	1	2	---
Tin	ppm	2	2	2	---
Aluminum	ppm	7	3	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	54	40	5	---
Nickel	ppm	<1	2	6	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	<1	<1	<1	---
Manganese	ppm	1	<1	2	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1787	1584	1955	---
Magnesium	ppm	573	527	281	---
Zinc	ppm	1234	1019	1061	---
Phosphorus	ppm	957	851	977	---
Barium	ppm	0	0	0	---
Boron	ppm	43	53	14	---

Depot: VOLVO0142
Unique No: 10643011
Signed: Wes Davis
Report Date: 12 Sep 2023



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GRAPHS

