



CONSTRUCTION EQUIPMENT

VOLVO EC300 316492 - DIESEL ENGINE



Sample No: VCP429875
Oil Type: DIESEL ENGINE OIL SAE 40
Job No:



SAMPLE INFORMATION

Sample Number	VCP429875	---	---	---
Sample Date	12 Jan 2024	---	---	---
Machine Hours	1861	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

FREDERICK DERR AND COMPANY
 PO BOX 2719
 SARASOTA, FL
 US 34230
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.0	---	---	---
Base Number (BN)	mg KOH/g	█ 7.5	---	---	---
Oxidation (PA)	%	47	---	---	---

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.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	57	---	---	---
Sulfation (PA)	%	45	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 3	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 3	---	---	---



WEAR METALS

Iron	ppm	█ 1	---	---	---
Copper	ppm	█ 15	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 75	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1722	---	---	---
Magnesium	ppm	█ 222	---	---	---
Zinc	ppm	█ 1122	---	---	---
Phosphorus	ppm	█ 926	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 55	---	---	---

Depot: FRESAR
Unique No: 10870779
Signed: Don Baldrige
Report Date: 09 Feb 2024



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GRAPHS

