



CONSTRUCTION EQUIPMENT

X11025 VEOLIA VOLVO EC220EL 31113 - DIESEL ENGINE



Sample No: VCP449109
Oil Type: VOLVO 30W
Job No: X11025 VEOLIA



SCOTT EQUIPMENT COMPANY LLC - Texarkana
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SAMPLE INFORMATION

Sample Number	VCP449109	VCP229999	---	---
Sample Date	04 Jan 2024	26 Oct 2020	---	---
Machine Hours	7916	2577	---	---
Oil Hours	7916	350	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	SEVERE	SEVERE	---	---



OIL CONDITION

Visc @ 100°C	cSt	█ 16.5	▲ 12.4	---	---
Base Number (BN)	mg KOH/g	█ 3.8	---	---	---
Oxidation (PA)	%	█ 116	67	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.2	---	---
Nitration (PA)	%	█ 87	63	---	---
Sulfation (PA)	%	█ 70	62	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	▲ 3.8	---	---
Silicon	ppm	● 55	● 173	---	---
Sodium	ppm	█ 6	█ 3	---	---
Potassium	ppm	█ <1	█ <1	---	---



WEAR METALS

Iron	ppm	● 575	█ 28	---	---
Copper	ppm	● 32	█ 3	---	---
Lead	ppm	█ 6	█ 6	---	---
Tin	ppm	● 21	█ <1	---	---
Aluminum	ppm	● 306	● 28	---	---
Chromium	ppm	● 25	█ 4	---	---
Molybdenum	ppm	█ 31	█ 78	---	---
Nickel	ppm	█ 11	█ 3	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	█ 0	0	---	---
Manganese	ppm	5	█ <1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	█ 1521	█ 1378	---	---
Magnesium	ppm	█ 534	█ 417	---	---
Zinc	ppm	█ 1186	█ 1099	---	---
Phosphorus	ppm	█ 761	█ 948	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 24	█ 303	---	---

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Piston, ring and cylinder wear is indicated. Bearing and/or bushing wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: VOLVO1034
Unique No: 10829135
Signed: Jonathan Hester
Report Date: 15 Jan 2024



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GRAPHS

