



CONSTRUCTION EQUIPMENT

RS0034438 VOLVO EC220EL 314612 - DIESEL ENGINE



Sample No: VCP422415
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: RS0034438



ARNOLD MACHINERY COMPANY
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SAMPLE INFORMATION

Sample Number	VCP422415	---	---	---
Sample Date	21 Jun 2023	---	---	---
Machine Hours	855	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	---	---	---
Base Number (BN)	mg KOH/g	█ 10.6	---	---	---
Oxidation (PA)	%	81	---	---	---

CONTAMINATION

Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	63	---	---	---
Sulfation (PA)	%	61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 10	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 46	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 12	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	█ 47	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1795	---	---	---
Magnesium	ppm	█ 550	---	---	---
Zinc	ppm	█ 1021	---	---	---
Phosphorus	ppm	█ 809	---	---	---
Barium	ppm	█ 14	---	---	---
Boron	ppm	█ 43	---	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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.

Depot: VOLVO6174
Unique No: 10538097
Signed: Wes Davis
Report Date: 02 Jul 2023



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GRAPHS

