



CONSTRUCTION EQUIPMENT

SW1024983 UPPER VALL VOLVO EC160D 220030 - DIESEL ENGINE



Sample No: VCP435301
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1024983 UPPER VALL



ARNOLD MACHINERY COMPANY
 3330 NORTH YELLOWSTONE HIGHWAY
 IDAHO FALLS, ID
 US 83401
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SAMPLE INFORMATION

Sample Number	VCP435301	---	---	---
Sample Date	13 Nov 2023	---	---	---
Machine Hours	5506	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	---	---	---
Base Number (BN)	mg KOH/g	█ 6.3	---	---	---
Oxidation (PA)	%	56	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	73	---	---	---
Sulfation (PA)	%	47	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ <1	---	---	---



WEAR METALS

Iron	ppm	█ 2	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 70	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 2007	---	---	---
Magnesium	ppm	█ 38	---	---	---
Zinc	ppm	█ 1200	---	---	---
Phosphorus	ppm	█ 1013	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 76	---	---	---

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.

Depot: VOLVO0077
Unique No: 10752968
Signed: Wes Davis
Report Date: 22 Nov 2023



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GRAPHS

