



CONSTRUCTION EQUIPMENT

2974-01 DEALER STOCK VOLVO SD45B 230447 - DIESEL ENGINE



Sample No: VC019922
Oil Type: FACTORY FILL
Job No: 2974-01 DEALER STOCK



SAMPLE INFORMATION

Sample Number	VC019922	---	---	---
Sample Date	24 Oct 2022	---	---	---
Machine Hours	3	---	---	---
Oil Hours	3	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

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5024 TRI-HILL FRONTAGE ROAD
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OIL CONDITION

Base Number (BN)	mg KOH/g	█ 24.2	---	---	---
Oxidation (PA)	%	█ 95	---	---	---



CONTAMINATION

Water	%	█ 5.44	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	█ 148	---	---	---
Sulfation (PA)	%	█ 18	---	---	---
Glycol	%	█ 0.0	---	---	---
Fuel	%	█ 0.3	---	---	---
Silicon	ppm	█ 11	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 2	---	---	---

Diagnosis

We advise that you check for the source of water entry. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform a viscosity test. All component wear rates are normal. Appearance is milky. There is a high concentration of water present in the oil. Test for glycol is negative. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

Iron	ppm	█ 6	---	---	---
Copper	ppm	█ 8	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 41	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	█ <1	---	---	---



ADDITIVES

Calcium	ppm	█ 1803	---	---	---
Magnesium	ppm	█ 450	---	---	---
Zinc	ppm	█ 1120	---	---	---
Phosphorus	ppm	█ 909	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 65	---	---	---

Depot: VOLV00118
Unique No: 10191761
Signed: Jonathan Hester
Report Date: 01 Nov 2022



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GRAPHS

