



CONSTRUCTION EQUIPMENT

5024HR RITCHIE BROS VOLVO L90F 68193 - DIESEL ENGINE



Sample No: VCP430558
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 5024HR RITCHIE BROS



SAMPLE INFORMATION

Sample Number	VCP430558	---	---	---
Sample Date	30 Nov 2023	---	---	---
Machine Hours	23801	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

HIGHWAY EQUIPMENT & SUPPLY CO MAIN
 PO BOX 1957
 HARRISBURG, PA
 US 17105
 Contact: WADE MADER
 wmader@hwyequip.com
 T: (717)564-3031
 F: (717)564-3568



OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	---	---	---
Base Number (BN)	mg KOH/g	█ 9.5	---	---	---
Oxidation (PA)	%	84	---	---	---

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

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 %	%	█ 0.3	---	---	---
Nitration (PA)	%	57	---	---	---
Sulfation (PA)	%	63	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 9	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 2	---	---	---



WEAR METALS

Iron	ppm	█ 9	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 45	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 1686	---	---	---
Magnesium	ppm	█ 542	---	---	---
Zinc	ppm	█ 1133	---	---	---
Phosphorus	ppm	█ 952	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 52	---	---	---

Depot: VOLVO0025
Unique No: 10769477
Signed: Wes Davis
Report Date: 06 Dec 2023



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GRAPHS

