



CONSTRUCTION EQUIPMENT

X11168 OLD CASTLE VOLVO L90H 626890 - DIESEL ENGINE



Sample No: VCP439717
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X11168 OLD CASTLE



SCOTT EQUIPMENT COMPANY LLC - Texarkana
 5401 SANDERSON LANE
 TEXARKANA, AR
 US 71854
 Contact: JAMES DOSS
 jdoss@scottcompanies.com
 T:
 F:



SAMPLE INFORMATION

Sample Number	VCP439717	VCP449112	---	---
Sample Date	09 Feb 2024	15 Dec 2023	---	---
Machine Hours	1013	737	---	---
Oil Hours	0	737	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	█ 12.5	█ 12.6	---	---
Base Number (BN)	mg KOH/g	█ 10.4	█ 9.0	---	---
Oxidation (PA)	%	79	80	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.4	---	---
Nitration (PA)	%	53	68	---	---
Sulfation (PA)	%	61	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 9	█ 21	---	---
Sodium	ppm	█ 2	█ 4	---	---
Potassium	ppm	█ 2	█ 2	---	---



WEAR METALS

Iron	ppm	█ 14	█ 36	---	---
Copper	ppm	█ 2	█ 8	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ 1	█ 4	---	---
Aluminum	ppm	█ 5	█ 14	---	---
Chromium	ppm	█ 1	█ 3	---	---
Molybdenum	ppm	█ 41	█ 38	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 1	█ 5	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	█ 1485	█ 1501	---	---
Magnesium	ppm	█ 508	█ 598	---	---
Zinc	ppm	█ 1090	█ 1157	---	---
Phosphorus	ppm	█ 804	█ 958	---	---
Barium	ppm	█ 11	█ <1	---	---
Boron	ppm	█ 46	█ 31	---	---

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: VOLVO1034
Unique No: 10882788
Signed: Wes Davis
Report Date: 16 Feb 2024



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GRAPHS

