



CONSTRUCTION EQUIPMENT

607168 TOEBE VOLVO L180 5571 - DIESEL ENGINE



Sample No: VCP452306
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 607168 TOEBE



SAMPLE INFORMATION

Sample Number	VCP452306	VCP416315	---	---
Sample Date	27 Dec 2023	18 Jul 2023	---	---
Machine Hours	2443	1612	---	---
Oil Hours	500	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

ALTA EQUIPMENT COMPANY - METRO WEST
56195 PONTIAC TRAIL
NEW HUDSON, MI
US 48165
Contact: PAUL CONZ
paul.conz@altg.com
T: (313)348-8861
F: (248)356-2029



OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	█ 13.5	---	---
Base Number (BN)	mg KOH/g	█ 8.5	█ 9.0	---	---
Oxidation (PA)	%	59	57	---	---

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.2	---	---
Nitration (PA)	%	67	58	---	---
Sulfation (PA)	%	52	52	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 4	█ 3	---	---
Sodium	ppm	█ 2	█ 2	---	---
Potassium	ppm	█ <1	█ 0	---	---



WEAR METALS

Iron	ppm	█ 6	█ 6	---	---
Copper	ppm	█ 6	█ 3	---	---
Lead	ppm	█ <1	█ 0	---	---
Tin	ppm	█ 1	█ <1	---	---
Aluminum	ppm	█ <1	█ <1	---	---
Chromium	ppm	█ 0	█ 0	---	---
Molybdenum	ppm	█ 59	█ 62	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	█ 1028	█ 1136	---	---
Magnesium	ppm	█ 987	█ 1051	---	---
Zinc	ppm	█ 1270	█ 1296	---	---
Phosphorus	ppm	█ 1061	█ 1059	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 0	█ 0	---	---

Depot: VOLVO2990
Unique No: 10822402
Signed: Don Baldrige
Report Date: 11 Jan 2024



CONSTRUCTION EQUIPMENT



GRAPHS

