



CONSTRUCTION EQUIPMENT

633234 TOEBE VOLVO L90H 626649 - DIESEL ENGINE



Sample No: VCP452304
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 633234 TOEBE



ALTA EQUIPMENT COMPANY - METRO WEST
 56195 PONTIAC TRAIL
 NEW HUDSON, MI
 US 48165
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SAMPLE INFORMATION

Sample Number	VCP452304	VCP415306	---	---
Sample Date	18 Dec 2023	15 Aug 2023	---	---
Machine Hours	1177	545	---	---
Oil Hours	500	545	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	13.2	12.7	---	---
Base Number (BN)	mg KOH/g	9.4	9.4	---	---
Oxidation (PA)	%	60	73	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.2	0.1	---	---
Nitration (PA)	%	58	55	---	---
Sulfation (PA)	%	52	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	18	39	---	---
Sodium	ppm	1	4	---	---
Potassium	ppm	<1	4	---	---



WEAR METALS

Iron	ppm	13	19	---	---
Copper	ppm	3	9	---	---
Lead	ppm	<1	1	---	---
Tin	ppm	1	3	---	---
Aluminum	ppm	2	8	---	---
Chromium	ppm	2	5	---	---
Molybdenum	ppm	57	40	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	1	5	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	1167	1608	---	---
Magnesium	ppm	889	609	---	---
Zinc	ppm	1268	1118	---	---
Phosphorus	ppm	1053	933	---	---
Barium	ppm	<1	0	---	---
Boron	ppm	7	59	---	---

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.

Depot: VOLVO2990
Unique No: 10822415
Signed: Don Baldrige
Report Date: 11 Jan 2024



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GRAPHS

