



CONSTRUCTION EQUIPMENT

SPM621856 BIRCH TREE VOLVO L35GS 3424258 - DIESEL ENGINE



Sample No: VCP431455
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM621856 BIRCH TREE



ALTA CONSTRUCTION EQUIPMENT LLC
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SAMPLE INFORMATION

Sample Number	VCP431455	VCP365023	---	---
Sample Date	31 Oct 2023	09 Aug 2022	---	---
Machine Hours	2637	1702	---	---
Oil Hours	500	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	13.7	14.6	---	---
Base Number (BN)	mg KOH/g	8.1	9.8	---	---
Oxidation (PA)	%	88	125	---	---



CONTAMINATION

Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	92	122	---	---
Sulfation (PA)	%	60	73	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	5	6	---	---
Sodium	ppm	0	1	---	---
Potassium	ppm	2	2	---	---



WEAR METALS

Iron	ppm	7	13	---	---
Copper	ppm	<1	2	---	---
Lead	ppm	<1	0	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	2	2	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	59	40	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1332	1756	---	---
Magnesium	ppm	818	455	---	---
Zinc	ppm	1224	1094	---	---
Phosphorus	ppm	1122	910	---	---
Barium	ppm	5	<1	---	---
Boron	ppm	13	49	---	---

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: VOLVO5023
Unique No: 10728565
Signed: Wes Davis
Report Date: 07 Nov 2023



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GRAPHS

