



CONSTRUCTION EQUIPMENT

20993 IAA VOLVO L90G 3656 - DIESEL ENGINE



Sample No: VCE254275
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 20993 IAA



520 - ASCENDUM MACHINERY INC - KNOXVILLE
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SAMPLE INFORMATION

Sample Number	VCE254275	VCP373616	---	---
Sample Date	16 Nov 2023	28 Sep 2022	---	---
Machine Hours	14299	13901	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	12.6	13.2	---	---
Base Number (BN)	mg KOH/g	10.0	12.2	---	---
Oxidation (PA)	%	71	85	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.4	0.3	---	---
Nitration (PA)	%	63	63	---	---
Sulfation (PA)	%	57	64	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	6	6	---	---
Sodium	ppm	3	0	---	---
Potassium	ppm	3	0	---	---



WEAR METALS

Iron	ppm	26	10	---	---
Copper	ppm	1	<1	---	---
Lead	ppm	1	<1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	9	4	---	---
Chromium	ppm	2	<1	---	---
Molybdenum	ppm	38	47	---	---
Nickel	ppm	1	0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	2	<1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	1668	1854	---	---
Magnesium	ppm	517	556	---	---
Zinc	ppm	1139	1182	---	---
Phosphorus	ppm	879	972	---	---
Barium	ppm	0	0	---	---
Boron	ppm	51	42	---	---

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: VOLV00124
Unique No: 10754000
Signed: Wes Davis
Report Date: 27 Nov 2023



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GRAPHS

