



CONSTRUCTION EQUIPMENT

24356 VOLVO L110H 632301 - DIESEL ENGINE



Sample No: VCP420546
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 24356



218 - ASCENDUM MACHINERY INC - N. CHARLESTON
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SAMPLE INFORMATION

Sample Number	VCP420546	VCP400700	---	---
Sample Date	02 Nov 2023	04 Mar 2023	---	---
Machine Hours	7188	3476	---	---
Oil Hours	1000	1000	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	█ 14.6	█ 13.4	---	---
Base Number (BN)	mg KOH/g	█ 4.5	█ 6.3	---	---
Oxidation (PA)	%	121	94	---	---



CONTAMINATION

Soot %	%	█ 1.5	█ 0.8	---	---
Nitration (PA)	%	124	97	---	---
Sulfation (PA)	%	85	68	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 9	█ 14	---	---
Sodium	ppm	█ 5	█ 6	---	---
Potassium	ppm	█ 3	█ 0	---	---



WEAR METALS

Iron	ppm	█ 92	█ 75	---	---
Copper	ppm	█ 12	▲ 46	---	---
Lead	ppm	█ 10	█ 13	---	---
Tin	ppm	█ 6	█ 5	---	---
Aluminum	ppm	▲ 26	▲ 46	---	---
Chromium	ppm	█ 4	█ 4	---	---
Molybdenum	ppm	█ 36	█ 57	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ 1	█ 3	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	█ 2095	█ 1730	---	---
Magnesium	ppm	█ 413	█ 420	---	---
Zinc	ppm	█ 1151	█ 1147	---	---
Phosphorus	ppm	█ 1025	█ 890	---	---
Barium	ppm	█ 3	█ <1	---	---
Boron	ppm	█ 10	█ 48	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level has decreased, but is still abnormal. All other 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: VOLVO3387
Unique No: 10729727
Signed: Don Baldrige
Report Date: 09 Nov 2023



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GRAPHS

