



CONSTRUCTION EQUIPMENT

25355 VOLVO L350 5041 - DIESEL ENGINE



Sample No: VCP455259
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25355



218 - ASCENDUM MACHINERY INC - N. CHARLESTON
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SAMPLE INFORMATION

Sample Number	VCP455259	---	---	---
Sample Date	05 Apr 2024	---	---	---
Machine Hours	1219	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	● 11.4	---	---	---
Base Number (BN)	mg KOH/g	■ 5.5	---	---	---
Oxidation (PA)	%	70	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.5	---	---	---
Nitration (PA)	%	78	---	---	---
Sulfation (PA)	%	59	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.3	---	---	---
Silicon	ppm	▲ 30	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 11	---	---	---



WEAR METALS

Iron	ppm	■ 27	---	---	---
Copper	ppm	▲ 192	---	---	---
Lead	ppm	■ 1	---	---	---
Tin	ppm	■ 4	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 87	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 2445	---	---	---
Magnesium	ppm	111	---	---	---
Zinc	ppm	■ 1223	---	---	---
Phosphorus	ppm	■ 1038	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 25	---	---	---

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 copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO3387
Unique No: 10977081
Signed: Don Baldrige
Report Date: 18 Apr 2024



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GRAPHS

