



CONSTRUCTION EQUIPMENT

25415 VOLVO EC350E 314730 - DIESEL ENGINE



Sample No: VCP455179
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25415



218 - ASCENDUM MACHINERY INC - N. CHARLESTON
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SAMPLE INFORMATION

Sample Number	VCP455179	VCP439311	---	---
Sample Date	18 Apr 2024	29 Dec 2023	---	---
Machine Hours	1490	990	---	---
Oil Hours	0	1000	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ABNORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	11.9	10.6	---	---
Base Number (BN)	mg KOH/g	8.0	4.3	---	---
Oxidation (PA)	%	80	76	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	66	88	---	---
Sulfation (PA)	%	62	65	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	1.1	---	---
Silicon	ppm	8	26	---	---
Sodium	ppm	2	3	---	---
Potassium	ppm	0	4	---	---



WEAR METALS

Iron	ppm	3	13	---	---
Copper	ppm	68	232	---	---
Lead	ppm	0	3	---	---
Tin	ppm	1	2	---	---
Aluminum	ppm	<1	2	---	---
Chromium	ppm	<1	0	---	---
Molybdenum	ppm	49	80	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	2	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1800	2061	---	---
Magnesium	ppm	447	91	---	---
Zinc	ppm	1114	1186	---	---
Phosphorus	ppm	943	946	---	---
Barium	ppm	<1	0	---	---
Boron	ppm	34	14	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. There is no indication of any contamination in the oil. 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: 10992767
Signed: Jonathan Hester
Report Date: 25 Apr 2024



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GRAPHS

