



CONSTRUCTION EQUIPMENT

S50401813-1 KRAMAR VOLVO EC350E 314226 - DIESEL ENGINE



Sample No: VCP415365
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: S50401813-1 KRAMAR



SAMPLE INFORMATION

Sample Number	VCP415365	VCP340673	---	---
Sample Date	04 Oct 2023	03 Dec 2021	---	---
Machine Hours	2500	819	---	---
Oil Hours	0	819	---	---
Oil Changed	Not Changed	Changed	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

VCES- VOLVO CONSTRUCTION EQUIPMENT
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OIL CONDITION

Visc @ 100°C	cSt	▲ 10.4	■ 12.5	---	---
Base Number (BN)	mg KOH/g	■ 6.3	■ 5	---	---
Oxidation (PA)	%	42	69	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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.



CONTAMINATION

Soot %	%	■ 0	■ 0.1	---	---
Nitration (PA)	%	37	74	---	---
Sulfation (PA)	%	43	65	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	■ 1.8	<1.0	---	---
Silicon	ppm	■ 3	■ 22	---	---
Sodium	ppm	■ 1	■ 4	---	---
Potassium	ppm	■ 3	■ 4	---	---



WEAR METALS

Iron	ppm	■ 13	■ 16	---	---
Copper	ppm	■ 3	▲ 360	---	---
Lead	ppm	■ 1	■ 2	---	---
Tin	ppm	■ 2	■ 4	---	---
Aluminum	ppm	■ 2	■ 2	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 39	■ 12	---	---
Nickel	ppm	■ <1	■ <1	---	---
Titanium	ppm	■ 0	■ <1	---	---
Silver	ppm	■ 0	<1	---	---
Manganese	ppm	■ <1	■ 3	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 712	■ 2201	---	---
Magnesium	ppm	■ 688	■ 151	---	---
Zinc	ppm	■ 1013	■ 1088	---	---
Phosphorus	ppm	■ 832	■ 904	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 0	■ 7	---	---

Depot: VOLVO4486
Unique No: 10686758
Signed: Sean Felton
Report Date: 13 Oct 2023



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GRAPHS

