



CONSTRUCTION EQUIPMENT

565509 VOLVO A30G 752905 - DIESEL ENGINE



Sample No: VCP424507
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 565509



SAMPLE INFORMATION

Sample Number	VCP424507	VCP397487	---	---
Sample Date	13 Jun 2023	22 Feb 2023	---	---
Machine Hours	1294	537	---	---
Oil Hours	500	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: ROBERT TURNER
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T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	▲ 10.6	---	---
Base Number (BN)	mg KOH/g	█ 7.3	█ 5.7	---	---
Oxidation (PA)	%	84	60	---	---

Diagnosis

No corrective action is recommended at this time. 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. 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.

CONTAMINATION

Soot %	%	█ 1	█ 0.7	---	---
Nitration (PA)	%	92	88	---	---
Sulfation (PA)	%	67	59	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	█ 0.5	---	---
Silicon	ppm	█ 9	▲ 64	---	---
Sodium	ppm	█ 2	█ <1	---	---
Potassium	ppm	█ 1	█ 5	---	---

WEAR METALS

Iron	ppm	█ 25	█ 45	---	---
Copper	ppm	▲ 104	▲ 382	---	---
Lead	ppm	█ 2	█ <1	---	---
Tin	ppm	█ 2	█ 4	---	---
Aluminum	ppm	█ 3	█ 4	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 50	█ 92	---	---
Nickel	ppm	█ 1	█ 2	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ <1	█ <1	---	---
Manganese	ppm	█ 2	█ 7	---	---
Vanadium	ppm	<1	<1	---	---

ADDITIVES

Calcium	ppm	█ 1722	█ 2354	---	---
Magnesium	ppm	█ 395	17	---	---
Zinc	ppm	█ 1035	█ 1201	---	---
Phosphorus	ppm	█ 834	█ 1027	---	---
Barium	ppm	█ 0	█ 2	---	---
Boron	ppm	█ 15	█ 20	---	---

Depot: RIPTAM
Unique No: 10550574
Signed: Don Baldrige
Report Date: 12 Jul 2023



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GRAPHS

