



CONSTRUCTION EQUIPMENT

568198 VOLVO A30G 752866 - DIESEL ENGINE



Sample No: VCP422142
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 568198



SAMPLE INFORMATION

Sample Number	VCP422142	VCP402963	---	---
Sample Date	05 Jul 2023	13 Feb 2023	---	---
Machine Hours	1096	526	---	---
Oil Hours	500	526	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	MARGINAL	ABNORMAL	---	---

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: ROBERT TURNER
rturner@ripatampa.com
T:
F:



OIL CONDITION

Visc @ 100°C	cSt	█ 12.3	▲ 10.8	---	---
Base Number (BN)	mg KOH/g	█ 8.7	█ 6.2	---	---
Oxidation (PA)	%	77	59	---	---

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Soot %	%	█ 0.4	█ 0.3	---	---
Nitration (PA)	%	72	82	---	---
Sulfation (PA)	%	63	54	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	█ 0.6	---	---
Silicon	ppm	█ 7	█ 46	---	---
Sodium	ppm	█ 2	█ 3	---	---
Potassium	ppm	█ 2	█ 4	---	---



WEAR METALS

Iron	ppm	█ 12	█ 27	---	---
Copper	ppm	▲ 123	▲ 398	---	---
Lead	ppm	█ 1	█ <1	---	---
Tin	ppm	█ <1	█ 3	---	---
Aluminum	ppm	█ 2	█ 2	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 52	█ 85	---	---
Nickel	ppm	█ 2	█ 4	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ <1	█ <1	---	---
Manganese	ppm	█ 2	█ 6	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1698	█ 2118	---	---
Magnesium	ppm	█ 394	█ 134	---	---
Zinc	ppm	█ 1041	█ 1210	---	---
Phosphorus	ppm	█ 845	█ 1030	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 28	█ 24	---	---

Depot: RIPTAM
Unique No: 10550577
Signed: Jonathan Hester
Report Date: 11 Jul 2023



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GRAPHS

