



CONSTRUCTION EQUIPMENT

687984 VOLVO A30G 752866 - DIESEL ENGINE



Sample No: VCP440916
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 687984



SAMPLE INFORMATION

Sample Number	VCP440916	VCP422142	VCP402963	---
Sample Date	15 Mar 2024	05 Jul 2023	13 Feb 2023	---
Machine Hours	2208	1096	526	---
Oil Hours	500	500	526	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	MARGINAL	ABNORMAL	---

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: PM Services
 PMServices@ripaconstruction.com
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	■ 12.9	■ 12.3	● 10.8	---
Base Number (BN)	mg KOH/g	■ 8.9	■ 8.7	■ 6.2	---
Oxidation (PA)	%	78	77	59	---

Diagnosis

Resample at the next service interval to monitor. All 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

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.4	■ 0.4	■ 0.3	---
Nitration (PA)	%	72	72	82	---
Sulfation (PA)	%	60	63	54	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	■ 0.6	---
Silicon	ppm	■ 3	■ 7	■ 46	---
Sodium	ppm	■ 1	■ 2	■ 3	---
Potassium	ppm	■ 1	■ 2	■ 4	---

WEAR METALS

Iron	ppm	■ 10	■ 12	■ 27	---
Copper	ppm	■ 4	▲ 123	▲ 398	---
Lead	ppm	■ <1	■ 1	■ <1	---
Tin	ppm	■ 1	■ <1	■ 3	---
Aluminum	ppm	■ 2	■ 2	■ 2	---
Chromium	ppm	■ <1	■ <1	■ <1	---
Molybdenum	ppm	■ 41	■ 52	■ 85	---
Nickel	ppm	■ 2	■ 2	■ 4	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	■ 0	■ <1	■ <1	---
Manganese	ppm	■ <1	■ 2	■ 6	---
Vanadium	ppm	<1	<1	0	---

ADDITIVES

Calcium	ppm	■ 1833	■ 1698	■ 2118	---
Magnesium	ppm	■ 543	■ 394	■ 134	---
Zinc	ppm	■ 1243	■ 1041	■ 1210	---
Phosphorus	ppm	■ 1019	■ 845	■ 1030	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 32	■ 28	■ 24	---

Depot: RIPTAM
Unique No: 10970499
Signed: Wes Davis
Report Date: 12 Apr 2024



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GRAPHS

