



CONSTRUCTION EQUIPMENT

687510 VOLVO A40G 752073 - DIESEL ENGINE



Sample No: VCP444108
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 687510



SAMPLE INFORMATION

Sample Number	VCP444108	VCP433435	---	---
Sample Date	12 Mar 2024	30 Nov 2023	---	---
Machine Hours	1131	527	---	---
Oil Hours	500	527	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ATTENTION	---	---

RIPA AND ASSOCIATES

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



OIL CONDITION

Visc @ 100°C	cSt	12.2	11.0	---	---
Base Number (BN)	mg KOH/g	8.3	5.4	---	---
Oxidation (PA)	%	76	56	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.2	0.2	---	---
Nitration (PA)	%	68	83	---	---
Sulfation (PA)	%	60	52	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.4	---	---
Silicon	ppm	10	30	---	---
Sodium	ppm	2	2	---	---
Potassium	ppm	<1	5	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



WEAR METALS

Iron	ppm	10	17	---	---
Copper	ppm	54	281	---	---
Lead	ppm	1	3	---	---
Tin	ppm	<1	3	---	---
Aluminum	ppm	2	2	---	---
Chromium	ppm	<1	0	---	---
Molybdenum	ppm	50	84	---	---
Nickel	ppm	2	2	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	1846	2132	---	---
Magnesium	ppm	554	61	---	---
Zinc	ppm	1249	1233	---	---
Phosphorus	ppm	1019	1048	---	---
Barium	ppm	0	0	---	---
Boron	ppm	27	32	---	---

Depot: RIPTAM
Unique No: 10970497
Signed: Don Baldrige
Report Date: 14 Apr 2024



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GRAPHS

