



# CONSTRUCTION EQUIPMENT

RIPA VOLVO A30G 742060 - DIESEL ENGINE



**Sample No:** VCP392940  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** RIPA



## SAMPLE INFORMATION

Sample Number	VCP392940	VCP399503	VCP375334	VCP377379
Sample Date	24 Jul 2023	13 Dec 2022	26 Sep 2022	21 Jun 2022
Machine Hours	8648	8120	7673	7206
Oil Hours	0	500	500	1500
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
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 US 33619  
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## OIL CONDITION

Visc @ 100°C	cSt	▲ 12.1	▲ 11.4	▲ 11.6	▲ 12.3
Base Number (BN)	mg KOH/g	■ 8.9	■ 9.0	■ 8.5	■ 9.9
Oxidation (PA)	%	■ 81	■ 74	■ 68	■ 83

### Diagnosis

No corrective action is recommended at this time. 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.



## CONTAMINATION

Soot %	%	■ 0.3	■ 0.3	■ 0.3	■ 0.4
Nitration (PA)	%	■ 67	■ 66	■ 61	■ 77
Sulfation (PA)	%	■ 60	■ 58	■ 59	■ 64
Glycol	%	■ NEG	■ NEG	■ NEG	■ NEG
Fuel	%	■ <1.0	■ <1.0	■ <1.0	■ <1.0
Silicon	ppm	■ 4	■ 3	■ 5	■ 4
Sodium	ppm	■ 0	■ 2	■ 3	■ 3
Potassium	ppm	■ 1	■ 0	■ 2	■ 2



## WEAR METALS

Iron	ppm	■ 6	■ 4	■ 4	■ 9
Copper	ppm	■ <1	■ <1	■ <1	■ <1
Lead	ppm	■ <1	■ <1	■ <1	■ <1
Tin	ppm	■ <1	■ <1	■ <1	■ <1
Aluminum	ppm	■ 2	■ <1	■ 3	■ 1
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 46	■ 46	■ 34	■ 38
Nickel	ppm	■ 0	■ 0	■ <1	■ 0
Titanium	ppm	■ <1	■ <1	■ 6	■ 11
Silver	ppm	■ 0	■ 0	■ 0	■ <1
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	■ 0	■ 0	■ 1	■ 0



## ADDITIVES

Calcium	ppm	■ 1468	■ 1556	■ 1251	■ 1624
Magnesium	ppm	■ 463	■ 470	■ 495	■ 479
Zinc	ppm	■ 1028	■ 1052	■ 1021	■ 1108
Phosphorus	ppm	■ 857	■ 846	■ 844	■ 910
Barium	ppm	■ 2	■ 0	■ 0	■ 0
Boron	ppm	■ 34	■ 29	■ 16	■ 32

**Depot:** RIPTAM  
**Unique No:** 10607015  
**Signed:** Jonathan Hester  
**Report Date:** 17 Aug 2023

**VOLVO** **GRAPHS**

