



CONSTRUCTION EQUIPMENT

VOLVO A30G 742585 - DIESEL ENGINE



Sample No: VCP425826
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP425826	VCP403997	VCP386151	VCP359746
Sample Date	29 Sep 2023	30 Mar 2023	01 Nov 2022	25 Jul 2022
Machine Hours	6229	5765	5235	4767
Oil Hours	0	500	500	500
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	NORMAL

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

Visc @ 100°C	cSt	▲ 11.9	▲ 11.9	▲ 12.4	■ 12.9
Base Number (BN)	mg KOH/g	■ 8.4	■ 8.3	■ 9.1	■ 9.9
Oxidation (PA)	%	78	66	71	97

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 %	%	■ 0.4	■ 0.4	■ 0.5	■ 0.6
Nitration (PA)	%	69	80	83	90
Sulfation (PA)	%	60	58	62	71
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	▲ 2.7	■ 1.4	<1.0
Silicon	ppm	■ 4	■ 4	■ 3	■ 4
Sodium	ppm	■ 3	■ 2	■ 1	■ 3
Potassium	ppm	■ <1	■ 2	■ 0	■ 0



WEAR METALS

Iron	ppm	■ 4	■ 8	■ 8	■ 10
Copper	ppm	■ <1	■ <1	■ <1	■ 1
Lead	ppm	■ 0	■ 0	■ <1	■ <1
Tin	ppm	■ <1	■ 0	■ <1	■ 1
Aluminum	ppm	■ 2	■ <1	■ 1	■ 2
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 47	■ 69	■ 63	■ 41
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	0	<1	2	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 1699	■ 1409	■ 1324	■ 1660
Magnesium	ppm	■ 576	826	■ 799	■ 492
Zinc	ppm	■ 1264	■ 1322	■ 1249	■ 1062
Phosphorus	ppm	■ 1057	■ 1117	■ 1033	■ 851
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 30	■ 14	■ 10	■ 25

Depot: RIPTAM
Unique No: 10675209
Signed: Jonathan Hester
Report Date: 06 Oct 2023



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GRAPHS

