



CONSTRUCTION EQUIPMENT

VOLVO A30G 742143 - DIESEL ENGINE



Sample No: VCP416364
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP416364	VCP278537	VCP264258	VCP244150
Sample Date	09 Oct 2023	11 Aug 2020	20 Mar 2020	02 Jul 2019
Machine Hours	5468	2631	2221	1246
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	ATTENTION	ATTENTION

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: ROBERT TURNER
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	█ 12.5	▲ 11.7	▲ 11.6	▲ 11.3
Base Number (BN)	mg KOH/g	█ 8.9	---	---	---
Oxidation (PA)	%	74	83	93	87

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

Soot %	%	█ 0.2	█ 0.6	█ 1.1	█ 0.5
Nitration (PA)	%	60	67	84	66
Sulfation (PA)	%	57	64	66	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	█ 2.0	<1.0	█ 3.2
Silicon	ppm	█ 4	█ 7	█ 6	█ 8
Sodium	ppm	█ 2	█ 3	█ 2	█ 4
Potassium	ppm	█ <1	█ <1	█ 0	█ 2

WEAR METALS

Iron	ppm	█ 6	█ 12	█ 26	█ 14
Copper	ppm	█ <1	█ 3	█ 12	█ 66
Lead	ppm	█ <1	█ <1	█ 4	█ 3
Tin	ppm	█ <1	█ <1	█ 2	█ <1
Aluminum	ppm	█ 3	█ 0	█ 2	█ 2
Chromium	ppm	█ <1	█ <1	█ <1	█ <1
Molybdenum	ppm	█ 45	█ 38	█ 38	█ 38
Nickel	ppm	█ <1	█ <1	█ <1	█ 0
Titanium	ppm	<1	<1	<1	0
Silver	ppm	█ 0	█ 0	█ 0	█ 0
Manganese	ppm	█ 0	█ <1	█ <1	█ 2
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	█ 1546	█ 1544	█ 1648	█ 1653
Magnesium	ppm	█ 479	█ 495	█ 482	█ 453
Zinc	ppm	█ 1094	█ 914	█ 814	█ 846
Phosphorus	ppm	█ 937	█ 799	█ 671	█ 648
Barium	ppm	█ 0	█ 0	█ <1	█ 0
Boron	ppm	█ 33	█ 52	█ 15	█ 27

Depot: RIPTAM
Unique No: 10700634
Signed: Wes Davis
Report Date: 20 Oct 2023



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VOLVO GRAPHS

