



CONSTRUCTION EQUIPMENT

580566 VOLVO A30G 752343 - DIESEL ENGINE



Sample No: VCP424515
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 580566



SAMPLE INFORMATION

Sample Number	VCP424515	VCP410225	VCP379659	VCP354002
Sample Date	21 Jul 2023	24 Apr 2023	26 Jan 2023	05 Aug 2022
Machine Hours	3990	3570	3025	2078
Oil Hours	500	500	500	1500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	MARGINAL	NORMAL

RIPA AND ASSOCIATES

10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: ROBERT TURNER
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 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	12.8	12.8	12.4	12.9
Base Number (BN)	mg KOH/g	9.0	9.1	9.7	11.1
Oxidation (PA)	%	76	80	81	86

CONTAMINATION

Soot %	%	0.4	0.5	0.4	0.4
Nitration (PA)	%	64	69	67	70
Sulfation (PA)	%	58	61	63	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.3	<1.0
Silicon	ppm	4	4	2	3
Sodium	ppm	3	3	0	4
Potassium	ppm	2	3	1	0

WEAR METALS

Iron	ppm	8	9	9	7
Copper	ppm	<1	<1	1	7
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	4	0	2	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	42	45	43
Nickel	ppm	<1	1	<1	0
Titanium	ppm	0	<1	1	0
Silver	ppm	0	<1	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	<1	0

ADDITIVES

Calcium	ppm	1709	1713	1642	1632
Magnesium	ppm	486	453	483	573
Zinc	ppm	1164	1160	1109	1163
Phosphorus	ppm	976	957	908	953
Barium	ppm	0	0	2	0
Boron	ppm	33	39	30	25

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.

Depot: RIPTAM
Unique No: 10601870
Signed: Wes Davis
Report Date: 11 Aug 2023



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GRAPHS

