



CONSTRUCTION EQUIPMENT

VOLVO A30G 752343 - DIESEL ENGINE



Sample No: VCP432067
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP432067	VCP424515	VCP410225	VCP379659
Sample Date	27 Oct 2023	21 Jul 2023	24 Apr 2023	26 Jan 2023
Machine Hours	4507	3990	3570	3025
Oil Hours	0	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	MARGINAL

RIPA AND ASSOCIATES
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	12.2	12.8	12.8	12.4
Base Number (BN)	mg KOH/g	9.5	9.0	9.1	9.7
Oxidation (PA)	%	77	76	80	81

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Tests indicate that there is no fuel present in the oil. 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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.4	0.5	0.4
Nitration (PA)	%	72	64	69	67
Sulfation (PA)	%	59	58	61	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.0	<1.0	<1.0	0.3
Silicon	ppm	4	4	4	2
Sodium	ppm	0	3	3	0
Potassium	ppm	4	2	3	1



WEAR METALS

Iron	ppm	11	8	9	9
Copper	ppm	1	<1	<1	1
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	1	<1
Aluminum	ppm	4	4	0	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	48	40	42	45
Nickel	ppm	<1	<1	1	<1
Titanium	ppm	0	0	<1	1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	1561	1709	1713	1642
Magnesium	ppm	527	486	453	483
Zinc	ppm	1065	1164	1160	1109
Phosphorus	ppm	871	976	957	908
Barium	ppm	2	0	0	2
Boron	ppm	21	33	39	30

Depot: RIPTAM
Unique No: 10776006
Signed: Wes Davis
Report Date: 12 Dec 2023



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VOLVO GRAPHS

