



CONSTRUCTION EQUIPMENT

VOLVO A30G 752265 - DIESEL ENGINE



Sample No: VCP420924
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP420924	VCP395975	VCP389809	VCP376731
Sample Date	26 Jul 2023	31 Jan 2023	19 Oct 2022	27 Jul 2022
Machine Hours	2664	2925	2417	1990
Oil Hours	0	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

RIPA AND ASSOCIATES
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.5	12.9	13.2
Base Number (BN)	mg KOH/g	9.0	8.8	11.1	10.3
Oxidation (PA)	%	77	79	86	91

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 %	%	0.3	0.4	0.4	0.4
Nitration (PA)	%	66	72	74	78
Sulfation (PA)	%	58	61	66	70
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	5	5
Sodium	ppm	3	3	1	3
Potassium	ppm	0	<1	2	0



WEAR METALS

Iron	ppm	11	13	11	24
Copper	ppm	4	2	10	33
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	1	1	1
Aluminum	ppm	<1	2	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	52	51	45	40
Nickel	ppm	2	2	3	<1
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	3	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1861	1579	1668	1642
Magnesium	ppm	579	593	543	493
Zinc	ppm	1200	1129	1144	1076
Phosphorus	ppm	1000	943	926	861
Barium	ppm	0	0	0	0
Boron	ppm	33	19	24	19

Depot: RIPTAM
Unique No: 10609115
Signed: Wes Davis
Report Date: 21 Aug 2023



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GRAPHS

