



CONSTRUCTION EQUIPMENT

VOLVO A30G 752143 - DIESEL ENGINE



Sample No: VCP407850
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP407850	VCP424503	VCP396762	VCP386247
Sample Date	16 Jun 2023	06 Jun 2023	04 Mar 2023	09 Nov 2022
Machine Hours	4995	10602	4274	3742
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	---	NORMAL	NORMAL

RIPA AND ASSOCIATES

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OIL CONDITION

Visc @ 100°C	cSt	12.8	11.0	12.3	12.8
Base Number (BN)	mg KOH/g	9.3	9.5	9.4	11.1
Oxidation (PA)	%	82	73	80	83

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 %	%	0.4	0.3	0.3	0.3
Nitration (PA)	%	78	65	66	68
Sulfation (PA)	%	62	58	62	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.5	<1.0
Silicon	ppm	3	3	4	3
Sodium	ppm	2	1	2	0
Potassium	ppm	2	0	0	2



WEAR METALS

Iron	ppm	5	4	8	7
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	6	<1	3	1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	52	37	42	42
Nickel	ppm	0	0	0	0
Titanium	ppm	7	6	3	6
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	1	<1
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	2090	1551	1593	1652
Magnesium	ppm	637	414	488	511
Zinc	ppm	1376	1008	1054	1068
Phosphorus	ppm	1168	836	849	922
Barium	ppm	12	0	0	0
Boron	ppm	35	37	39	42

Depot: RIPTAM
Unique No: 10551648
Signed: Wes Davis
Report Date: 12 Jul 2023



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VOLVO GRAPHS

