



CONSTRUCTION EQUIPMENT

VOLVO A30G 752151 - DIESEL ENGINE



Sample No: VCP428833
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP428833	VCP425222	VCP411089	VCP397259
Sample Date	06 Dec 2023	14 Aug 2023	08 May 2023	16 Jan 2023
Machine Hours	5738	5197	4896	4145
Oil Hours	0	500	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
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 Contact: PM Services
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.6	12.6	12.6
Base Number (BN)	mg KOH/g	9.4	9.8	9.7	9.3
Oxidation (PA)	%	79	77	78	81

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.2	0.3	0.4
Nitration (PA)	%	73	58	73	73
Sulfation (PA)	%	59	58	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	6
Sodium	ppm	0	3	0	2
Potassium	ppm	2	0	2	0



WEAR METALS

Iron	ppm	8	6	9	12
Copper	ppm	<1	1	<1	1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	6	3	4	5
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	44	46	48	46
Nickel	ppm	1	0	<1	<1
Titanium	ppm	<1	0	<1	6
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1583	1860	1642	1556
Magnesium	ppm	515	563	476	567
Zinc	ppm	1158	1224	1073	1150
Phosphorus	ppm	920	1009	913	919
Barium	ppm	<1	0	0	0
Boron	ppm	21	34	33	28

Depot: RIPTAM
Unique No: 10870770
Signed: Wes Davis
Report Date: 08 Feb 2024



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GRAPHS

