



CONSTRUCTION EQUIPMENT

VOLVO A40G 341672 - DIESEL ENGINE



Sample No: VCP432566
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP432566	WCMC165200	WCMC165890	WCMC164805
Sample Date	31 Aug 2023	10 Jan 2018	29 Nov 2017	03 Nov 2017
Machine Hours	6207	4720	4261	3848
Oil Hours	0	459	413	588
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT

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OIL CONDITION

Visc @ 100°C	cSt	12.1	13.27	13.38	12.84
Base Number (BN)	mg KOH/g	9.9	---	---	---
Oxidation (PA)	%	75	48	48	52

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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	0.2	0.3	0.3
Nitration (PA)	%	56	50	50	50
Sulfation (PA)	%	60	47	47	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	2.6	<1.0	<1.0	<1.0
Silicon	ppm	5	2	3	4
Sodium	ppm	2	3	2	3
Potassium	ppm	<1	1	<1	<1



WEAR METALS

Iron	ppm	8	9	8	10
Copper	ppm	<1	7	2	2
Lead	ppm	0	2	<1	3
Tin	ppm	<1	0	<1	3
Aluminum	ppm	1	1	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	35	66	66	65
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1593	1046	1040	1084
Magnesium	ppm	495	989	967	989
Zinc	ppm	1040	1136	1110	1079
Phosphorus	ppm	877	804	966	984
Barium	ppm	2	0	0	0
Boron	ppm	64	4	3	4

Depot: VOLV00142
Unique No: 10633965
Signed: Wes Davis
Report Date: 07 Sep 2023



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GRAPHS

