



CONSTRUCTION EQUIPMENT

619874 DIPRO VOLVO A40G 353052 - DIESEL ENGINE



Sample No: VCP431701
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 619874 DIPRO



SAMPLE INFORMATION

Sample Number	VCP431701	VCP416916	VCP414168	VCP424304
Sample Date	25 Oct 2023	31 Aug 2023	11 Jul 2023	19 May 2023
Machine Hours	6429	5749	5162	4676
Oil Hours	500	500	500	600
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	13.1	13.5	12.9
Base Number (BN)	mg KOH/g	9.3	9.1	8.9	9.0
Oxidation (PA)	%	60	57	57	61

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 %	%	0.2	0.1	0.1	0.2
Nitration (PA)	%	59	54	52	61
Sulfation (PA)	%	52	52	51	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	3	3	3
Sodium	ppm	2	1	<1	1
Potassium	ppm	2	0	<1	2



WEAR METALS

Iron	ppm	3	5	5	5
Copper	ppm	<1	<1	1	2
Lead	ppm	<1	0	<1	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	1	6	<1	0
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	57	59	55	62
Nickel	ppm	0	0	0	0
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	1063	1077	1024	1144
Magnesium	ppm	996	1022	947	1020
Zinc	ppm	1131	1328	1252	1347
Phosphorus	ppm	1050	1082	1019	1077
Barium	ppm	0	0	0	0
Boron	ppm	0	0	1	0

Depot: VOLVO2990
Unique No: 10729735
Signed: Jonathan Hester
Report Date: 09 Nov 2023



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GRAPHS

