



CONSTRUCTION EQUIPMENT

579444 DIPRO VOLVO A40G 353052 - DIESEL ENGINE



Sample No: VCP414168
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 579444 DIPRO



SAMPLE INFORMATION

Sample Number	VCP414168	VCP424304	VCP399472	VCP383085
Sample Date	11 Jul 2023	19 May 2023	20 Mar 2023	21 Feb 2023
Machine Hours	5162	4676	3963	3712
Oil Hours	500	600	200	600
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.5	12.9	13.7	13.1
Base Number (BN)	mg KOH/g	8.9	9.0	9.8	7.9
Oxidation (PA)	%	57	61	54	67

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 %	%	0.1	0.2	0.1	0.1
Nitration (PA)	%	52	61	49	66
Sulfation (PA)	%	51	53	50	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	7	7
Sodium	ppm	<1	1	0	0
Potassium	ppm	<1	2	<1	14



WEAR METALS

Iron	ppm	5	5	4	21
Copper	ppm	1	2	4	16
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	<1	0	1	4
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	55	62	62	22
Nickel	ppm	0	0	<1	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	1024	1144	1123	2169
Magnesium	ppm	947	1020	953	39
Zinc	ppm	1252	1347	1259	1119
Phosphorus	ppm	1019	1077	1079	909
Barium	ppm	0	0	0	0
Boron	ppm	1	0	<1	126

Depot: VOLVO2990
Unique No: 10559733
Signed: Don Baldrige
Report Date: 17 Jul 2023



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GRAPHS

