



CONSTRUCTION EQUIPMENT

703502 DIPRO VOLVO A40G 353052 - DIESEL ENGINE



Sample No: VCP453518
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 703502 DIPRO



SAMPLE INFORMATION

Sample Number	VCP453518	VCP444152	VCP433729	VCP431701
Sample Date	06 May 2024	06 Mar 2024	18 Dec 2023	25 Oct 2023
Machine Hours	8665	8028	7110	6429
Oil Hours	500	500	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.6	12.3	12.5
Base Number (BN)	mg KOH/g	9.0	9.4	9.1	9.3
Oxidation (PA)	%	59	59	61	60

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 %	%	0.1	0.1	0.2	0.2
Nitration (PA)	%	56	56	64	59
Sulfation (PA)	%	51	51	52	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.2	<1.0
Silicon	ppm	6	4	3	2
Sodium	ppm	2	<1	2	2
Potassium	ppm	4	2	1	2



WEAR METALS

Iron	ppm	7	5	5	3
Copper	ppm	3	<1	<1	<1
Lead	ppm	3	<1	0	<1
Tin	ppm	3	<1	<1	0
Aluminum	ppm	4	2	<1	1
Chromium	ppm	2	<1	0	0
Molybdenum	ppm	60	65	60	57
Nickel	ppm	3	<1	<1	0
Titanium	ppm	2	<1	0	0
Silver	ppm	3	<1	0	0
Manganese	ppm	2	<1	<1	<1
Vanadium	ppm	2	<1	<1	0



ADDITIVES

Calcium	ppm	1074	1158	1063	1063
Magnesium	ppm	947	1060	997	996
Zinc	ppm	1216	1345	1300	1131
Phosphorus	ppm	1043	1202	1093	1050
Barium	ppm	1	0	0	0
Boron	ppm	2	<1	2	0

Depot: VOLVO2990
Unique No: 11033686
Signed: Don Baldrige
Report Date: 20 May 2024



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VOLVO GRAPHS

