



CONSTRUCTION EQUIPMENT

VOLVO A40G 341 163 - DIESEL ENGINE



Sample No: VCP441183
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP441183	VCP420020	VCP290055	VCP284789
Sample Date	08 May 2024	17 Nov 2023	28 Oct 2020	18 Jul 2020
Machine Hours	10842	9855	6564	6280
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.8	13.2	13.8
Base Number (BN)	mg KOH/g	9.0	9.1	---	---
Oxidation (PA)	%	80	83	93	98

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 %	%	0.2	0.2	0.3	0.4
Nitration (PA)	%	68	67	81	106
Sulfation (PA)	%	59	61	70	75
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	15	5	6	5
Sodium	ppm	6	0	1	5
Potassium	ppm	4	3	1	3



WEAR METALS

Iron	ppm	6	6	10	12
Copper	ppm	<1	<1	1	1
Lead	ppm	1	0	<1	2
Tin	ppm	<1	0	<1	0
Aluminum	ppm	4	4	1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	44	38	38
Nickel	ppm	1	2	<1	2
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1768	1782	1554	1800
Magnesium	ppm	442	462	492	710
Zinc	ppm	1127	1147	1007	1132
Phosphorus	ppm	1035	941	885	966
Barium	ppm	2	0	<1	0
Boron	ppm	58	43	37	29

Depot: VOLVO0090
Unique No: 11022904
Signed: Wes Davis
Report Date: 14 May 2024



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GRAPHS

