



CONSTRUCTION EQUIPMENT

VOLVO A40G 352780 - DIESEL ENGINE



Sample No: VCP445657
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP445657	VCP05957356	VCP331167	VCP336726
Sample Date	19 Mar 2024	18 Sep 2023	04 Jan 2022	02 Jan 2022
Machine Hours	4328	3652	7065	0
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	12.2	12.4	12.9	13.1
Base Number (BN)	mg KOH/g	7.6	8.7	10.8	11.2
Oxidation (PA)	%	82	75	82	76

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	0.1
Nitration (PA)	%	69	67	62	44
Sulfation (PA)	%	59	58	63	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.7	<1.0	<1.0
Silicon	ppm	5	5	5	5
Sodium	ppm	1	2	2	2
Potassium	ppm	0	2	0	0



WEAR METALS

Iron	ppm	6	6	5	3
Copper	ppm	<1	2	<1	4
Lead	ppm	<1	<1	<1	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	3	<1	1	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	50	50	41	39
Nickel	ppm	2	2	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1750	1852	1447	1374
Magnesium	ppm	510	558	430	425
Zinc	ppm	1092	1158	987	959
Phosphorus	ppm	938	936	803	778
Barium	ppm	0	0	0	0
Boron	ppm	27	35	41	63

Depot: VOLVO0090
Unique No: 10941512
Signed: Wes Davis
Report Date: 26 Mar 2024

VOLVO **GRAPHS**

