



CONSTRUCTION EQUIPMENT

W05003963 VOLVO A40G 341427 - DIESEL ENGINE



Sample No: VCP420840
Oil Type: MOBIL 15W40
Job No: W05003963



SAMPLE INFORMATION

Sample Number	VCP420840	VCP418772	VCP420892	VCP420899
Sample Date	27 Oct 2023	26 Oct 2023	12 Sep 2023	03 Aug 2023
Machine Hours	10775	10561	10241	9977
Oil Hours	250	250	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	13.01	13.0	13.0
Base Number (BN)	mg KOH/g	9.0	9.0	9.2	8.7
Oxidation (PA)	%	65	62	61	59

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	0.1	0.1
Nitration (PA)	%	49	50	48	45
Sulfation (PA)	%	62	61	59	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	4
Sodium	ppm	5	5	3	6
Potassium	ppm	5	4	1	3



WEAR METALS

Iron	ppm	3	4	2	2
Copper	ppm	<1	0	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	2	0	0
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	120	98	111	125
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	1500	1429	1551	1632
Magnesium	ppm	598	541	624	653
Zinc	ppm	855	780	925	889
Phosphorus	ppm	697	642	771	748
Barium	ppm	2	0	0	0
Boron	ppm	363	374	322	364

Depot: VOLVO0002
Unique No: 10767950
Signed: Sean Felton
Report Date: 05 Dec 2023



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GRAPHS

