



CONSTRUCTION EQUIPMENT

ASCENDUM MACHINERY/500 HOUR CSA 24585

VOLVO A40G 352924 - DIESEL ENGINE



Sample No: VCP433702
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40
Job No: 24585



SAMPLE INFORMATION

Sample Number	VCP433702	ASC0000203	VCP0006412	VCP0005282
Sample Date	14 Dec 2023	02 Aug 2023	30 Mar 2023	07 Dec 2022
Machine Hours	2242	1513	998	520
Oil Hours	1000	515	478	520
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.3	12.6	10.5
Base Number (BN)	mg KOH/g	8.5	9.0	7.4	6.5
Oxidation (PA)	%	85	72	57	61

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 %	%	0.3	0.2	0.2	0.2
Nitration (PA)	%	78	63	65	91
Sulfation (PA)	%	62	58	54	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.3	<1.0	0.5
Silicon	ppm	6	6	11	39
Sodium	ppm	1	2	<1	0
Potassium	ppm	0	0	<1	5



WEAR METALS

Iron	ppm	12	7	11	23
Copper	ppm	4	8	58	294
Lead	ppm	0	<1	<1	2
Tin	ppm	1	<1	2	4
Aluminum	ppm	1	2	1	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	40	39	66	89
Nickel	ppm	4	1	4	4
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	4
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1624	1527	1361	2220
Magnesium	ppm	526	531	877	32
Zinc	ppm	1141	1036	1364	1164
Phosphorus	ppm	914	864	1101	1012
Barium	ppm	0	0	0	0
Boron	ppm	25	31	9	46

Depot: TRIBUR
Unique No: 10792824
Signed: Wes Davis
Report Date: 19 Dec 2023



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GRAPHS

