



CONSTRUCTION EQUIPMENT

W07012739 VOLVO A40G 341644 - DIESEL ENGINE



Sample No: VCP420342
Oil Type: MOBIL 15W40
Job No: W07012739



SAMPLE INFORMATION

Sample Number	VCP420342	VCP319191	VCP293959	---
Sample Date	12 Jun 2023	26 Jun 2021	01 Dec 2020	---
Machine Hours	6003	3007	2991	---
Oil Hours	500	500	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ATTENTION	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.4	12.8	---
Base Number (BN)	mg KOH/g	9.0	---	---	---
Oxidation (PA)	%	85	81	89	---



CONTAMINATION

Soot %	%	0.4	0.3	0.4	---
Nitration (PA)	%	67	68	76	---
Sulfation (PA)	%	63	65	66	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	0.5	<1.0	---
Silicon	ppm	6	5	5	---
Sodium	ppm	3	2	<1	---
Potassium	ppm	1	<1	<1	---



WEAR METALS

Iron	ppm	8	10	16	---
Copper	ppm	<1	11	32	---
Lead	ppm	<1	1	2	---
Tin	ppm	<1	1	2	---
Aluminum	ppm	3	2	0	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	40	35	42	---
Nickel	ppm	<1	2	2	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1771	1543	1724	---
Magnesium	ppm	531	503	484	---
Zinc	ppm	1006	1004	852	---
Phosphorus	ppm	812	863	750	---
Barium	ppm	0	0	0	---
Boron	ppm	43	63	31	---

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.

Depot: VOLVO8882
Unique No: 10520289
Signed: Wes Davis
Report Date: 16 Jun 2023



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GRAPHS

