



CONSTRUCTION EQUIPMENT

SW1027988 DIAMOND MA VOLVO A40D 12032 - DIESEL ENGINE



Sample No: VCP412914
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1027988 DIAMOND MA



SAMPLE INFORMATION

Sample Number	VCP412914	---	---	---
Sample Date	03 Jan 2024	---	---	---
Machine Hours	6905	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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 4323 EAST WINSLOW AVENUE
 PHOENIX, AZ
 US 85040
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	---	---	---
Base Number (BN)	mg KOH/g	█ 5.9	---	---	---
Oxidation (PA)	%	54	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Light concentration of carbon/soot present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	▲ 3.2	---	---	---
Nitration (PA)	%	75	---	---	---
Sulfation (PA)	%	62	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 8	---	---	---
Potassium	ppm	█ 12	---	---	---



WEAR METALS

Iron	ppm	█ 25	---	---	---
Copper	ppm	█ 1	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 62	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1256	---	---	---
Magnesium	ppm	█ 758	---	---	---
Zinc	ppm	█ 1214	---	---	---
Phosphorus	ppm	█ 1050	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 17	---	---	---

Depot: VOLVO6174
Unique No: 10836670
Signed: Angela Borella
Report Date: 23 Jan 2024



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GRAPHS

