



CONSTRUCTION EQUIPMENT

64045 ISBELL VOLVO A40F 11538 - DIESEL ENGINE



Sample No: VCP416186
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 64045 ISBELL



SAMPLE INFORMATION

Sample Number	VCP416186	VCE161754	---	---
Sample Date	19 Jul 2023	26 Mar 2013	---	---
Machine Hours	11319	2491	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.2	█ 13.38	---	---
Base Number (BN)	mg KOH/g	█ 8.3	---	---	---
Oxidation (PA)	%	71	█ 16	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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

Soot %	%	█ 0.7	█ 0	---	---
Nitration (PA)	%	78	█ 25	---	---
Sulfation (PA)	%	58	█ 33	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	█ 2.6	<1.0	---	---
Silicon	ppm	█ 18	█ 4	---	---
Sodium	ppm	█ 3	█ 12	---	---
Potassium	ppm	█ 2	█ 1	---	---



WEAR METALS

Iron	ppm	█ 28	█ 7	---	---
Copper	ppm	█ 3	█ <1	---	---
Lead	ppm	█ 2	█ <1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 7	█ 1	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 49	█ 48	---	---
Nickel	ppm	█ 2	█ <1	---	---
Titanium	ppm	█ <1	2	---	---
Silver	ppm	█ 0	0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1488	1355	---	---
Magnesium	ppm	█ 632	734	---	---
Zinc	ppm	█ 1166	█ 1073	---	---
Phosphorus	ppm	█ 960	█ 970	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 40	85	---	---

Depot: COWMAD
Unique No: 10577370
Signed: Wes Davis
Report Date: 01 Aug 2023



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GRAPHS

