



CONSTRUCTION EQUIPMENT

64051 FLANNIGAN VOLVO A45G 352811 - DIESEL ENGINE



Sample No: VCP416181
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 64051 FLANNIGAN



SAMPLE INFORMATION

Sample Number	VCP416181	---	---	---
Sample Date	19 Jul 2023	---	---	---
Machine Hours	4587	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

COWIN EQUIPMENT COMPANY INC - GUNTERSVILLE
 15101 ALABAMA HWY 20
 MADISON, AL
 US 35756
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OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	---	---	---
Base Number (BN)	mg KOH/g	█ 9.3	---	---	---
Oxidation (PA)	%	79	---	---	---

Diagnosis

No corrective action is recommended at this time. 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

Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	65	---	---	---
Sulfation (PA)	%	63	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 0	---	---	---



WEAR METALS

Iron	ppm	█ 12	---	---	---
Copper	ppm	█ 58	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 40	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ 7	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1711	---	---	---
Magnesium	ppm	█ 516	---	---	---
Zinc	ppm	█ 1119	---	---	---
Phosphorus	ppm	█ 916	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 52	---	---	---

Depot: COWMAD
Unique No: 10577351
Signed: Doug Bogart
Report Date: 31 Jul 2023



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GRAPHS

