



CONSTRUCTION EQUIPMENT

63651 ALTA ATHENS VOLVO 220E VCP 397232 (S/N NOT GIVEN) - DIESEL ENGINE



Sample No: VCP397232
Oil Type: NOT GIVEN
Job No: 63651 ALTA ATHENS



SAMPLE INFORMATION

Sample Number	VCP397232	---	---	---
Sample Date	28 Jun 2023	---	---	---
Machine Hours	461	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

COWIN EQUIPMENT COMPANY INC - GUNTERSVILLE
15101 ALABAMA HWY 20
MADISON, AL
US 35756
Contact: RANDY HARRIS
RHARRIS@COWIN.COM
T: (256)298-2322
F: (256)355-5250



OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	---	---	---
Base Number (BN)	mg KOH/g	█ 6.7	---	---	---
Oxidation (PA)	%	49	---	---	---

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

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	69	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 13	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 2	---	---	---



WEAR METALS

Iron	ppm	█ 66	---	---	---
Copper	ppm	█ 8	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 4	---	---	---
Nickel	ppm	█ 6	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	4	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 2500	---	---	---
Magnesium	ppm	█ 58	---	---	---
Zinc	ppm	█ 1126	---	---	---
Phosphorus	ppm	█ 956	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 35	---	---	---

Depot: COWMAD
Unique No: 10563379
Signed: Jonathan Hester
Report Date: 20 Jul 2023



CONSTRUCTION EQUIPMENT



GRAPHS

