



CONSTRUCTION EQUIPMENT

BABCOCK VOLVO A45G VCP 437794 (S/N NOT GIVEN) - DIESEL ENGINE



Sample No: VCP437792
Oil Type: CITGO 15W40
Job No: BABCOCK



SAMPLE INFORMATION

Sample Number	VCP437792	---	---	---
Sample Date	02 Dec 2023	---	---	---
Machine Hours	721	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

MITCHELL & STARK CONSTRUCTION CO
6001 Shirley St
NAPLES, FL
US 34109
Contact: SERVICE MANAGER



OIL CONDITION

Visc @ 100°C	cSt	▲ 10.8	---	---	---
Base Number (BN)	mg KOH/g	■ 4.6	---	---	---
Oxidation (PA)	%	60	---	---	---

T: (239)597-2165
F: (239)566-7865

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.4	---	---	---
Nitration (PA)	%	82	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.2	---	---	---
Silicon	ppm	■ 34	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 3	---	---	---



WEAR METALS

Iron	ppm	■ 28	---	---	---
Copper	ppm	■ 233	---	---	---
Lead	ppm	■ 1	---	---	---
Tin	ppm	■ 5	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 87	---	---	---
Nickel	ppm	■ 7	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 3	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 2165	---	---	---
Magnesium	ppm	■ 13	---	---	---
Zinc	ppm	■ 1259	---	---	---
Phosphorus	ppm	■ 1030	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 25	---	---	---

Depot: MITNAP
Unique No: 10789213
Signed: Angela Borella
Report Date: 19 Dec 2023



CONSTRUCTION EQUIPMENT



GRAPHS

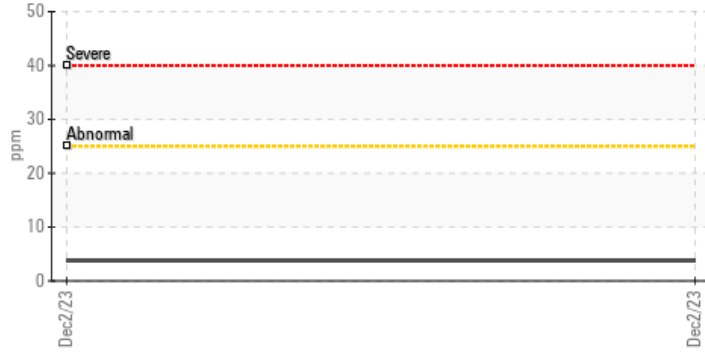
Iron (ppm)



Lead (ppm)



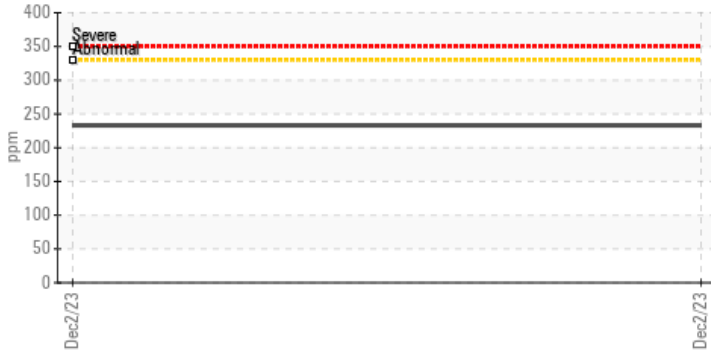
Aluminum (ppm)



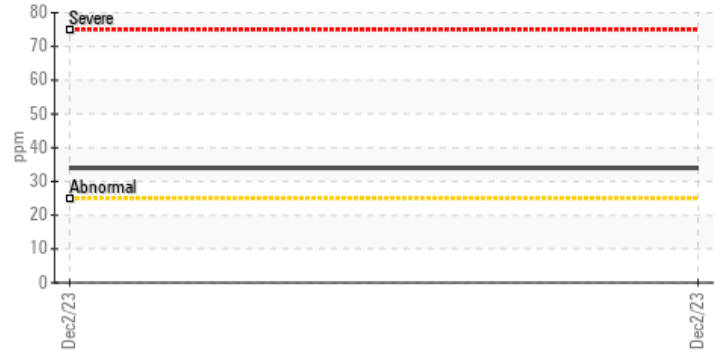
Chromium (ppm)



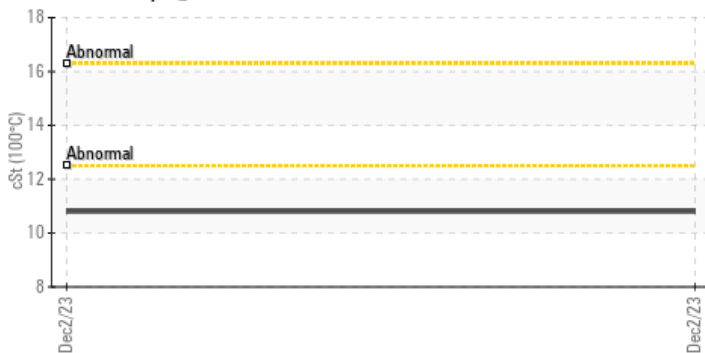
Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

