



CONSTRUCTION EQUIPMENT

VOLVO A45G OT56 - DIESEL ENGINE



Sample No: VCP437784
Oil Type: CITGARD 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP437784	---	---	---
Sample Date	04 Jan 2024	---	---	---
Machine Hours	11787	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

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



OIL CONDITION

Visc @ 100°C	cSt	▲ 11.9	---	---	---
Base Number (BN)	mg KOH/g	■ 8.7	---	---	---
Oxidation (PA)	%	57	---	---	---

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

Diagnosis

No corrective action is recommended at this time. 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. 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 %	%	■ 0.3	---	---	---
Nitration (PA)	%	58	---	---	---
Sulfation (PA)	%	51	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.5	---	---	---
Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 2	---	---	---



WEAR METALS

Iron	ppm	■ 4	---	---	---
Copper	ppm	■ <1	---	---	---
Lead	ppm	■ 1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 60	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 1768	---	---	---
Magnesium	ppm	■ 411	---	---	---
Zinc	ppm	■ 1267	---	---	---
Phosphorus	ppm	■ 1091	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 6	---	---	---

Depot: MITNAP
Unique No: 10849239
Signed: Jonathan Hester
Report Date: 31 Jan 2024



CONSTRUCTION EQUIPMENT



GRAPHS

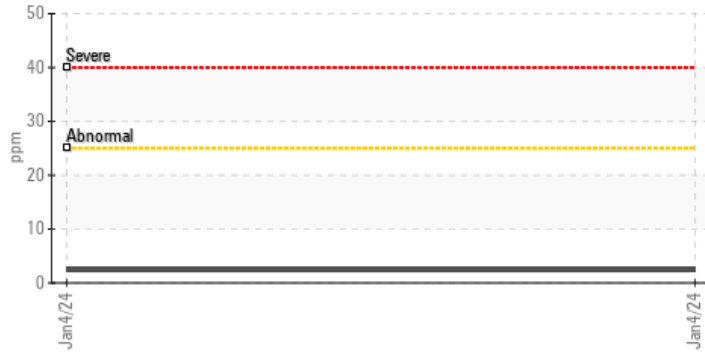
Iron (ppm)



Lead (ppm)



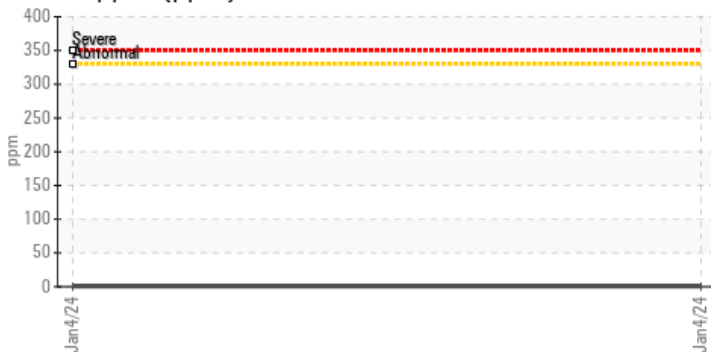
Aluminum (ppm)



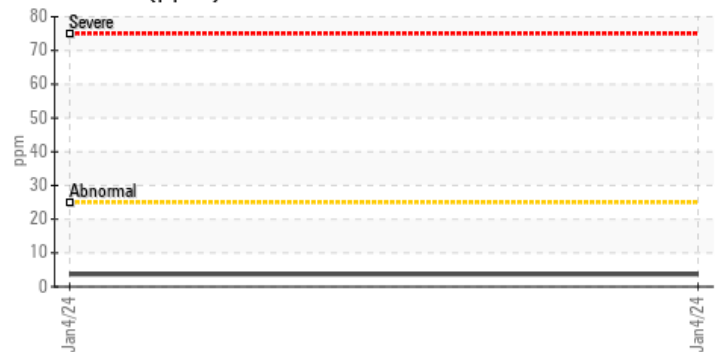
Chromium (ppm)



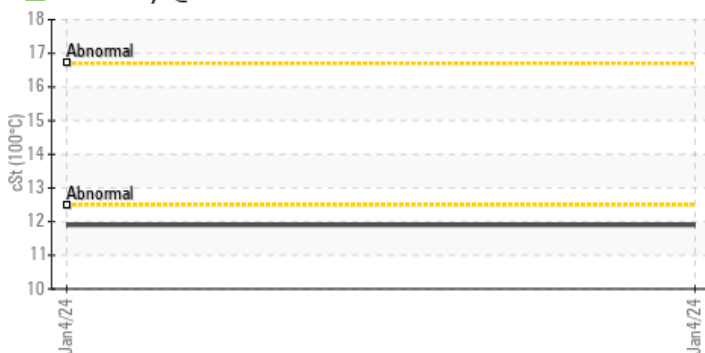
Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

