



# CONSTRUCTION EQUIPMENT

ARCH CONST TAKEUCHI TL10V-2 410001252 - DIESEL ENGINE



**Sample No:** VCP433913  
**Oil Type:** DIESEL ENGINE OIL SAE 10W30  
**Job No:** ARCH CONST



## SAMPLE INFORMATION

Sample Number	VCP433913	---	---	---
Sample Date	05 May 2024	---	---	---
Machine Hours	1952	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

### COWIN EQUIPMENT - ATLANTA

5710 RIVERVIEW RD  
MABLETON, GA  
US 30126

Contact: MIKE ANDREWS  
mandrews@cowin.com  
T: (404)690-7210  
F:



## OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	---	---	---
Base Number (BN)	mg KOH/g	█ 9.8	---	---	---
Oxidation (PA)	%	57	---	---	---

### 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

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	72	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 9	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ 3	---	---	---



## WEAR METALS

Iron	ppm	█ 17	---	---	---
Copper	ppm	█ 9	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 8	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 69	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	1	---	---	---



## ADDITIVES

Calcium	ppm	█ 1668	---	---	---
Magnesium	ppm	█ 504	---	---	---
Zinc	ppm	█ 1223	---	---	---
Phosphorus	ppm	█ 1039	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 139	---	---	---

**Depot:** COWMAB  
**Unique No:** 11071677  
**Signed:** Sean Felton  
**Report Date:** 12 Jun 2024

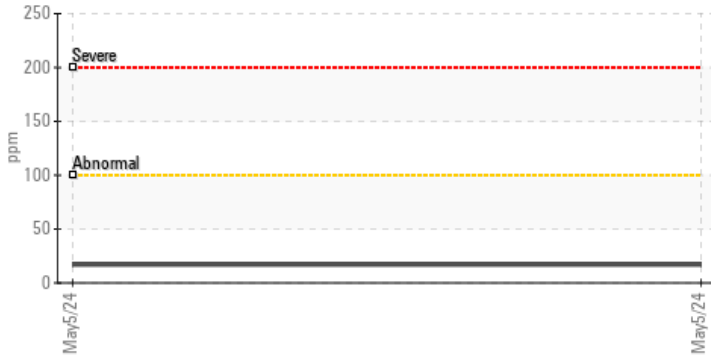


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## GRAPHS

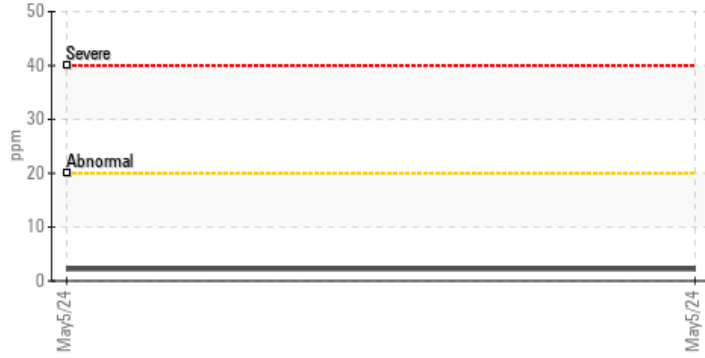
### Iron (ppm)



### Lead (ppm)



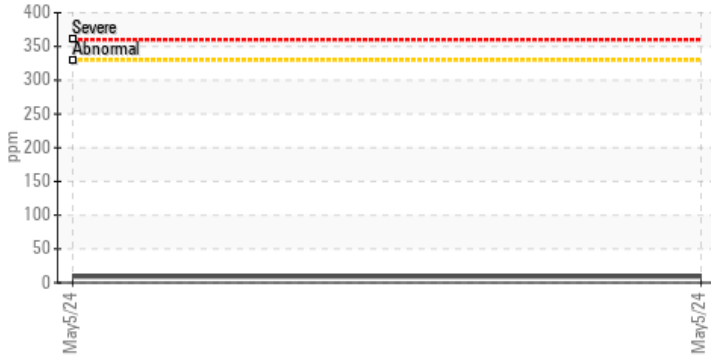
### Aluminum (ppm)



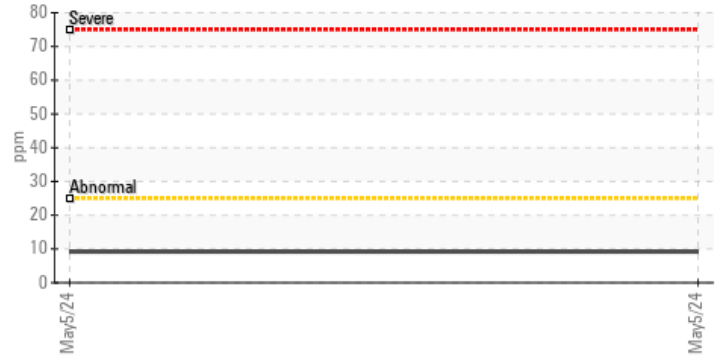
### Chromium (ppm)



### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

