



CONSTRUCTION EQUIPMENT

38526 TAKEUCHI TL10V2 412004687 - DIESEL ENGINE



Sample No: VCP438639
Oil Type: DIESEL ENGINE OIL SAE 10W30
Job No: 38526



SAMPLE INFORMATION

Sample Number	VCP438639	---	---	---
Sample Date	14 Jul 2024	---	---	---
Machine Hours	188	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
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	█ 12.9	---	---	---
Base Number (BN)	mg KOH/g	█ 8.2	---	---	---
Oxidation (PA)	%	71	---	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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 %	%	█ 0.2	---	---	---
Nitration (PA)	%	72	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 1	---	---	---



WEAR METALS

Iron	ppm	█ 17	---	---	---
Copper	ppm	█ 14	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 25	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 2299	---	---	---
Magnesium	ppm	█ 309	---	---	---
Zinc	ppm	█ 1174	---	---	---
Phosphorus	ppm	█ 977	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 24	---	---	---

Depot: COWMAB
Unique No: 11124271
Signed: Sean Felton
Report Date: 15 Jul 2024



CONSTRUCTION EQUIPMENT



GRAPHS

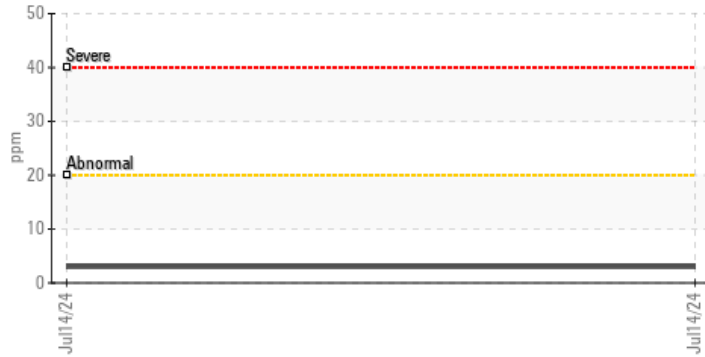
Iron (ppm)



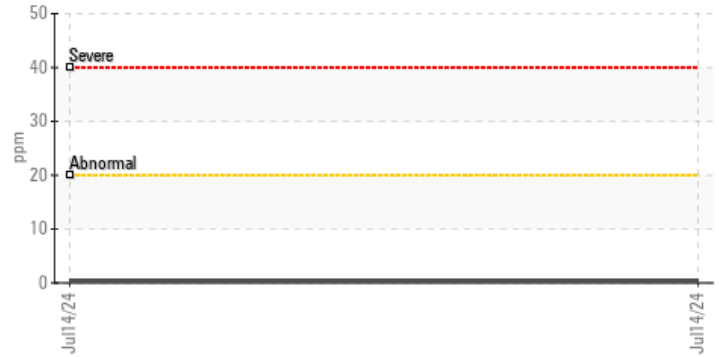
Lead (ppm)



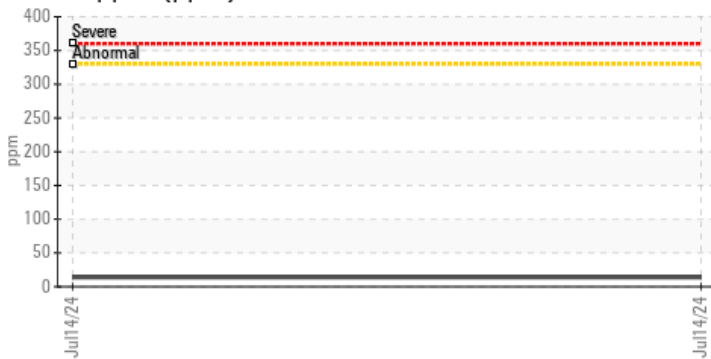
Aluminum (ppm)



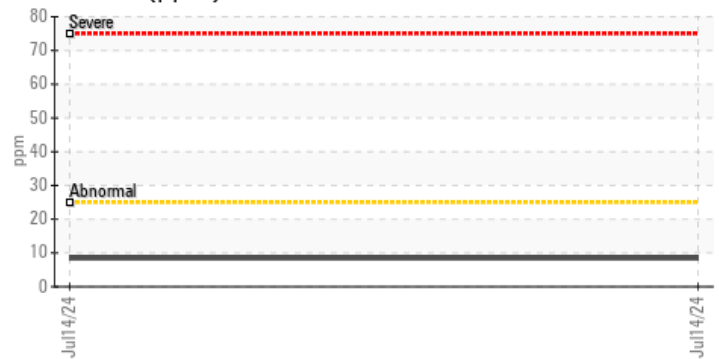
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

