



# CONSTRUCTION EQUIPMENT

SPM540534 MURRAY LAK TAKEUCHI TL12R2 412105706 - DIESEL ENGINE



**Sample No:** VCP411317  
**Oil Type:** DIESEL ENGINE OIL SAE 10W30  
**Job No:** SPM540534 MURRAY LAK



## SAMPLE INFORMATION

Sample Number	VCP411317	---	---	---
Sample Date	26 Apr 2023	---	---	---
Machine Hours	65	---	---	---
Oil Hours	65	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

**ALTA CONSTRUCTION EQUIPMENT LLC**  
 G-3283 S. DORT HIGHWAY  
 BURTON, MI  
 US 48529  
 Contact: BURTON SERVICE  
 BURTON.SERVICE@ALTAEQUIPMENT.COM  
 T:  
 F:



## OIL CONDITION

Visc @ 100°C	cSt	█ 10.2	---	---	---
Base Number (BN)	mg KOH/g	█ 8.1	---	---	---
Oxidation (PA)	%	27	---	---	---

## 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)	%	48	---	---	---
Sulfation (PA)	%	35	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 24	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 135	---	---	---



## WEAR METALS

Iron	ppm	█ 16	---	---	---
Copper	ppm	█ 23	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 142	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	<1	---	---	---



## ADDITIVES

Calcium	ppm	█ 2680	---	---	---
Magnesium	ppm	█ 58	---	---	---
Zinc	ppm	█ 545	---	---	---
Phosphorus	ppm	█ 455	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 172	---	---	---

**Depot:** VOLVO5023  
**Unique No:** 10454992  
**Signed:** Jonathan Hester  
**Report Date:** 04 May 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

