



# CONSTRUCTION EQUIPMENT

W07013747-1 GIV HOPE TAKEUCHI TB240 124005826 - DIESEL ENGINE



**Sample No:** VCP412040  
**Oil Type:** DIESEL ENGINE OIL SAE 10W30  
**Job No:** W07013747-1 GIV HOPE



## SAMPLE INFORMATION

Sample Number	<b>VCP412040</b>	VCP350674	VCP358972	---
Sample Date	<b>02 Nov 2023</b>	07 Dec 2022	18 Aug 2022	---
Machine Hours	<b>466</b>	283	234	---
Oil Hours	<b>250</b>	0	234	---
Oil Changed	<b>Changed</b>	Not Changd	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	SEVERE	---

**MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND**  
 1345 MOUNTAIN ROAD  
 GLEN ALLEN, VA  
 US 23060  
 Contact: KYLE RATLIFFE  
 KRATLIFFE@MCCLUNG-LOGAN.COM  
 T:  
 F: (804)266-1611

## OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	13.1	▲ 10.5	---
Base Number (BN)	mg KOH/g	<b>8.2</b>	10.3	9.7	---
Oxidation (PA)	%	<b>67</b>	68	66	---

## CONTAMINATION

Soot %	%	<b>0.3</b>	0.1	0.2	---
Nitration (PA)	%	<b>77</b>	61	68	---
Sulfation (PA)	%	<b>53</b>	58	54	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	0.3	8.0	---
Silicon	ppm	<b>32</b>	6	10	---
Sodium	ppm	<b>2</b>	2	4	---
Potassium	ppm	<b>3</b>	2	21	---

## 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.

## WEAR METALS

Iron	ppm	<b>42</b>	6	11	---
Copper	ppm	<b>31</b>	<1	3	---
Lead	ppm	<b>&lt;1</b>	0	<1	---
Tin	ppm	<b>1</b>	<1	<1	---
Aluminum	ppm	<b>16</b>	<1	3	---
Chromium	ppm	<b>2</b>	<1	<1	---
Molybdenum	ppm	<b>70</b>	70	56	---
Nickel	ppm	<b>0</b>	0	<1	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>&lt;1</b>	0	<1	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---

## ADDITIVES

Calcium	ppm	<b>1184</b>	1236	1124	---
Magnesium	ppm	<b>742</b>	705	564	---
Zinc	ppm	<b>858</b>	873	773	---
Phosphorus	ppm	<b>638</b>	702	626	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>43</b>	51	55	---

**Depot:** VOLVO8882  
**Unique No:** 10729747  
**Signed:** Jonathan Hester  
**Report Date:** 09 Nov 2023



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## GRAPHS

