



# CONSTRUCTION EQUIPMENT

## 8010 TAKEUCHI 410001658 - DIESEL ENGINE



**Sample No:** VCP434848  
**Oil Type:** CAT DIESEL ENGINE OIL 10W30  
**Job No:** 8010



### SAMPLE INFORMATION

Sample Number	<b>VCP434848</b>	VCP351231	VCP279486	VCP281621
Sample Date	<b>25 Jun 2024</b>	31 Mar 2022	22 Jun 2021	06 Oct 2020
Machine Hours	<b>3950</b>	2400	1850	1335
Oil Hours	<b>0</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	NORMAL

**LEONARDS CONTRACTING**  
 30850 STEPHENSON HWY  
 MADISON HEIGHTS, MI  
 US 48071  
 Contact: LARRY SCHRADER  
 larry.schrader@sdevelop.com  
 T: (810)499-1953  
 F: x:



### OIL CONDITION

Visc @ 100°C	cSt	<b>14.4</b>	12.8	14.6	12.8
Base Number (BN)	mg KOH/g	<b>9.6</b>	10.6	---	---
Oxidation (PA)	%	<b>112</b>	111	116	104

### 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	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.5</b>	0.4	0.6	0.4
Nitration (PA)	%	<b>113</b>	111	107	93
Sulfation (PA)	%	<b>73</b>	77	81	74
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>10</b>	24	19	17
Sodium	ppm	<b>4</b>	4	4	5
Potassium	ppm	<b>4</b>	4	1	2



### WEAR METALS

Iron	ppm	<b>25</b>	46	48	44
Copper	ppm	<b>4</b>	19	33	46
Lead	ppm	<b>&lt;1</b>	0	<1	0
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>5</b>	11	8	2
Chromium	ppm	<b>&lt;1</b>	3	2	2
Molybdenum	ppm	<b>46</b>	122	48	44
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	<1	<1	0
Manganese	ppm	<b>&lt;1</b>	1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>2304</b>	2013	2005	1851
Magnesium	ppm	<b>570</b>	698	584	530
Zinc	ppm	<b>1439</b>	1339	1302	1147
Phosphorus	ppm	<b>1201</b>	1107	1026	987
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>68</b>	134	48	47

**Depot:** LEOMAD  
**Unique No:** 11113287  
**Signed:** Sean Felton  
**Report Date:** 09 Jul 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

