



# CONSTRUCTION EQUIPMENT

## TIGERCAT 250C 2502002 - DIESEL ENGINE



**Sample No:** VCP406865  
**Oil Type:** MOBIL DELVAC 1300 SUPER15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP406865</b>	VCP324033	VCP387350	VCP357578
Sample Date	<b>07 Jul 2023</b>	14 Apr 2023	07 Feb 2023	14 Sep 2022
Machine Hours	<b>22189</b>	21611	21094	20160
Oil Hours	<b>500</b>	500	800	550
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**PLEASANT RIVER LUMBER**  
 PO BOX 68  
 DOVER FOXCROFT, ME  
 US 04426  
 Contact: BURLEY HIGGINS  
 burley@pleasantriverlumber.com  
 T:  
 F: (207)564-8259



### OIL CONDITION

Visc @ 100°C	cSt	<b>14.6</b>	13.3	14.0	13.3
Base Number (BN)	mg KOH/g	<b>8.5</b>	7.5	8.5	9.5
Oxidation (PA)	%	<b>92</b>	75	86	86



### CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>107</b>	78	91	91
Sulfation (PA)	%	<b>65</b>	54	63	65
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	3	3	2
Sodium	ppm	<b>5</b>	2	<1	2
Potassium	ppm	<b>2</b>	3	1	1

### 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>16</b>	9	15	11
Copper	ppm	<b>1</b>	<1	0	<1
Lead	ppm	<b>9</b>	3	5	13
Tin	ppm	<b>&lt;1</b>	1	0	1
Aluminum	ppm	<b>4</b>	0	<1	2
Chromium	ppm	<b>4</b>	2	<1	2
Molybdenum	ppm	<b>72</b>	62	68	64
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	0	<1
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>1274</b>	1099	1201	1094
Magnesium	ppm	<b>1165</b>	1021	992	942
Zinc	ppm	<b>1500</b>	1374	1364	1299
Phosphorus	ppm	<b>1193</b>	1092	1108	1049
Barium	ppm	<b>0</b>	0	<1	0
Boron	ppm	<b>2</b>	4	0	4

**Depot:** PLEDOV  
**Unique No:** 10631735  
**Signed:** Don Baldrige  
**Report Date:** 06 Sep 2023



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## VOLVO GRAPHS

