



# CONSTRUCTION EQUIPMENT

## C-18 ENG CATERPILLAR 988K TWX01434 - DIESEL ENGINE



**Sample No:** VCP327117  
**Oil Type:** CITGO 15W40  
**Job No:** C-18 ENG



### SAMPLE INFORMATION

Sample Number	VCP327117	---	---	---
Sample Date	14 Dec 2023	---	---	---
Machine Hours	27633	---	---	---
Oil Hours	3308	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

**ALTA EQUIPMENT CO - ORLAND PARK**  
 5000 INDUSTRIAL HWY  
 GARY, IN  
 US 46406  
 Contact: DAVE ENG  
 DAVE.ENG@ALTG.COM  
 T: (312)350-2560  
 F:



### OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	---	---	---
Base Number (BN)	mg KOH/g	█ 6.5	---	---	---
Oxidation (PA)	%	63	---	---	---

### 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	%	NEG	---	---	---
Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	65	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 0	---	---	---



### WEAR METALS

Iron	ppm	█ 32	---	---	---
Copper	ppm	█ 6	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 90	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---



### ADDITIVES

Calcium	ppm	█ 1490	---	---	---
Magnesium	ppm	386	---	---	---
Zinc	ppm	█ 1347	---	---	---
Phosphorus	ppm	█ 1136	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	248	---	---	---

**Depot:** VOLVO8885  
**Unique No:** 10802552  
**Signed:** Wes Davis  
**Report Date:** 22 Dec 2023



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## GRAPHS

