



# CONSTRUCTION EQUIPMENT

## SPM621974 CATERPILLAR D8T KPZO1336 - DIESEL ENGINE



**Sample No:** VCP429890  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM621974



### SAMPLE INFORMATION

Sample Number	<b>VCP429890</b>	VCP420674	VCP400810	---
Sample Date	<b>02 Nov 2023</b>	25 Aug 2023	21 Feb 2023	---
Machine Hours	<b>9815</b>	9433	7449	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	MARGINAL	---

**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	<b>12.6</b>	12.8	10.9	---
Base Number (BN)	mg KOH/g	<b>8.6</b>	8.2	10.1	---
Oxidation (PA)	%	<b>53</b>	55	73	---

### 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	---
Soot %	%	<b>0.3</b>	0.8	0.8	---
Nitration (PA)	%	<b>49</b>	60	73	---
Sulfation (PA)	%	<b>51</b>	56	61	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	▲ 3.2	---
Silicon	ppm	<b>6</b>	4	13	---
Sodium	ppm	<b>0</b>	2	2	---
Potassium	ppm	<b>2</b>	<1	2	---



### WEAR METALS

Iron	ppm	<b>15</b>	46	34	---
Copper	ppm	<b>10</b>	6	11	---
Lead	ppm	<b>0</b>	0	1	---
Tin	ppm	<b>0</b>	<1	<1	---
Aluminum	ppm	<b>2</b>	1	2	---
Chromium	ppm	<b>0</b>	1	<1	---
Molybdenum	ppm	<b>63</b>	75	37	---
Nickel	ppm	<b>&lt;1</b>	1	0	---
Titanium	ppm	<b>&lt;1</b>	0	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>0</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1194</b>	1472	1609	---
Magnesium	ppm	<b>604</b>	574	455	---
Zinc	ppm	<b>1105</b>	1321	1051	---
Phosphorus	ppm	<b>937</b>	1071	857	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>138</b>	236	61	---

**Depot:** VOLVO8885  
**Unique No:** 10766823  
**Signed:** Wes Davis  
**Report Date:** 01 Dec 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

