



# CONSTRUCTION EQUIPMENT

## X28399 KOBELCO CH160G GM04-03023 - DIESEL ENGINE



**Sample No:** VCP379755

**Oil Type:** NOT GIVEN

**Job No:** X28399



### SAMPLE INFORMATION

Sample Number	<b>VCP379755</b>	VCE026653	VCE76425	---
Sample Date	<b>01 Nov 2023</b>	23 Mar 2022	13 Oct 2021	---
Machine Hours	<b>9681</b>	8142	7371	---
Oil Hours	<b>0</b>	771	583	---
Oil Changed	<b>Not Chngd</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	---



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### OIL CONDITION

Visc @ 100°C	cSt	█ <b>12.4</b>	█ 12.9	▲ 12.4	---
Base Number (BN)	mg KOH/g	█ <b>8.3</b>	█ 5.8	---	---
Oxidation (PA)	%	<b>86</b>	89	61	---



### CONTAMINATION

Soot %	%	█ <b>0.1</b>	█ 0.2	█ 0.2	---
Nitration (PA)	%	<b>73</b>	87	76	---
Sulfation (PA)	%	<b>60</b>	69	59	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	█ <b>1.7</b>	<1.0	▲ 2.1	---
Silicon	ppm	█ <b>7</b>	█ 2	█ 5	---
Sodium	ppm	█ <b>&lt;1</b>	█ 0	█ 0	---
Potassium	ppm	█ <b>0</b>	█ 3	█ 3	---



### WEAR METALS

Iron	ppm	█ <b>3</b>	█ 4	█ 4	---
Copper	ppm	█ <b>3</b>	█ 2	█ 2	---
Lead	ppm	█ <b>&lt;1</b>	█ <1	█ <1	---
Tin	ppm	█ <b>0</b>	█ 0	█ <1	---
Aluminum	ppm	█ <b>1</b>	█ <1	█ 2	---
Chromium	ppm	█ <b>&lt;1</b>	█ <1	█ <1	---
Molybdenum	ppm	█ <b>58</b>	█ <1	█ 1	---
Nickel	ppm	█ <b>0</b>	█ 0	█ <1	---
Titanium	ppm	<b>&lt;1</b>	0	<1	---
Silver	ppm	█ <b>0</b>	█ <1	█ <1	---
Manganese	ppm	<b>&lt;1</b>	█ <1	█ <1	---
Vanadium	ppm	<b>&lt;1</b>	0	<1	---



### ADDITIVES

Calcium	ppm	█ <b>1649</b>	█ 2215	█ 1408	---
Magnesium	ppm	█ <b>488</b>	96	█ 503	---
Zinc	ppm	█ <b>1140</b>	█ 1105	█ 839	---
Phosphorus	ppm	█ <b>857</b>	█ 953	█ 715	---
Barium	ppm	█ <b>0</b>	█ 0	█ 0	---
Boron	ppm	█ <b>45</b>	█ 116	█ 47	---

### Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. Fuel content negligible. 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 acceptable for the time in service.

**Depot:** VOLVO2603  
**Unique No:** 10726076  
**Signed:** Don Baldrige  
**Report Date:** 06 Nov 2023



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## GRAPHS

