



# CONSTRUCTION EQUIPMENT

SPM428179 HITACHI ZW550-6 005203 - DIESEL ENGINE



**Sample No:** VCP373914  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM428179



## SAMPLE INFORMATION

Sample Number	VCP373914	---	---	---
Sample Date	03 Aug 2022	---	---	---
Machine Hours	6406	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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US 46406  
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F:

## OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	---	---	---
Base Number (BN)	mg KOH/g	█ 10.1	---	---	---
Oxidation (PA)	%	89	---	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is negative. 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.

## CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	79	---	---	---
Sulfation (PA)	%	66	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	▲ 68	---	---	---
Potassium	ppm	▲ 62	---	---	---

## WEAR METALS

Iron	ppm	█ 38	---	---	---
Copper	ppm	█ 75	---	---	---
Lead	ppm	█ 3	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 6	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 52	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	█ 1601	---	---	---
Magnesium	ppm	█ 585	---	---	---
Zinc	ppm	█ 1192	---	---	---
Phosphorus	ppm	█ 960	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 32	---	---	---

**Depot:** VOLVO8885  
**Unique No:** 1010063  
**Signed:** Jonathan Hester  
**Report Date:** 19 Aug 2022

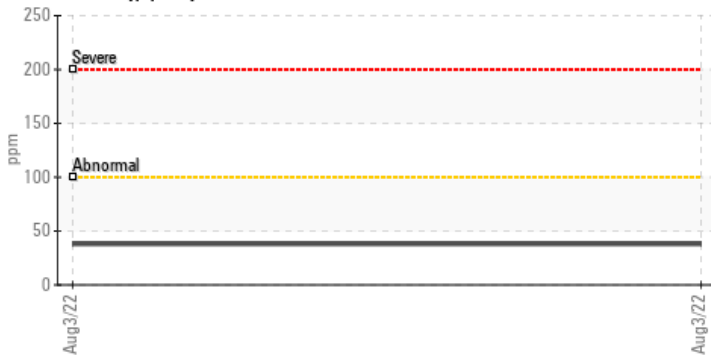


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## GRAPHS

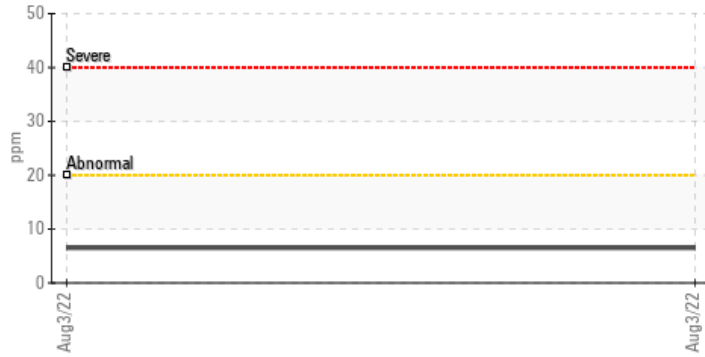
### Iron (ppm)



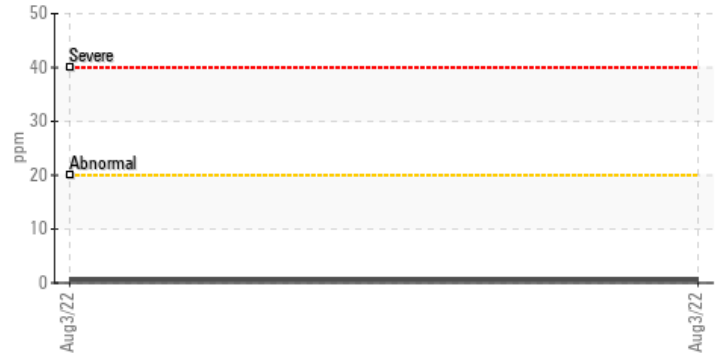
### Lead (ppm)



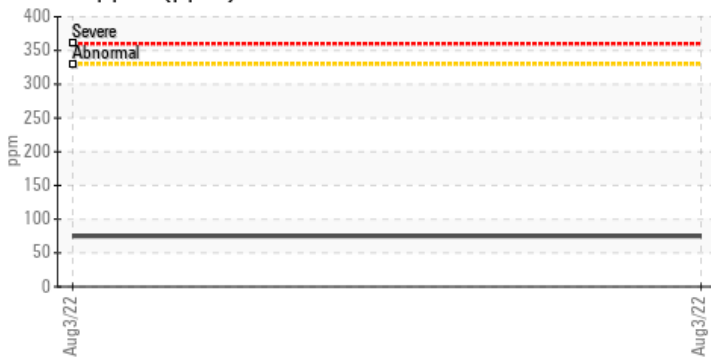
### Aluminum (ppm)



### Chromium (ppm)



### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

