



# CONSTRUCTION EQUIPMENT

W02007426 VOLVO EC350EL 310389 - DIESEL ENGINE



**Sample No:** VCP420900  
**Oil Type:** MOBIL 15W40  
**Job No:** W02007426



## SAMPLE INFORMATION

Sample Number	<b>VCP420900</b>	VCP376463	VCP379203	VCP351282
Sample Date	<b>04 Aug 2023</b>	26 Aug 2022	23 May 2022	10 Feb 2022
Machine Hours	<b>8933</b>	7996	7599	7032
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.3</b>	12.1	11.4	11.9
Base Number (BN)	mg KOH/g	<b>6.6</b>	10.5	8.3	10.3
Oxidation (PA)	%	<b>47</b>	86	81	85

## CONTAMINATION

Soot %	%	<b>0.2</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>66</b>	67	75	68
Sulfation (PA)	%	<b>49</b>	64	59	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	5	5	4
Sodium	ppm	<b>2</b>	<1	2	2
Potassium	ppm	<b>0</b>	0	<1	0

## 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>12</b>	4	5	4
Copper	ppm	<b>1</b>	<1	<1	<1
Lead	ppm	<b>0</b>	<1	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>0</b>	1	1	<1
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>39</b>	41	45	48
Nickel	ppm	<b>&lt;1</b>	<1	<1	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	<1	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>2164</b>	1460	1498	1699
Magnesium	ppm	<b>133</b>	509	487	495
Zinc	ppm	<b>1116</b>	1036	1015	1050
Phosphorus	ppm	<b>938</b>	833	868	902
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>29</b>	36	34	51

**Depot:** VOLVO0002  
**Unique No:** 10609101  
**Signed:** Wes Davis  
**Report Date:** 21 Aug 2023

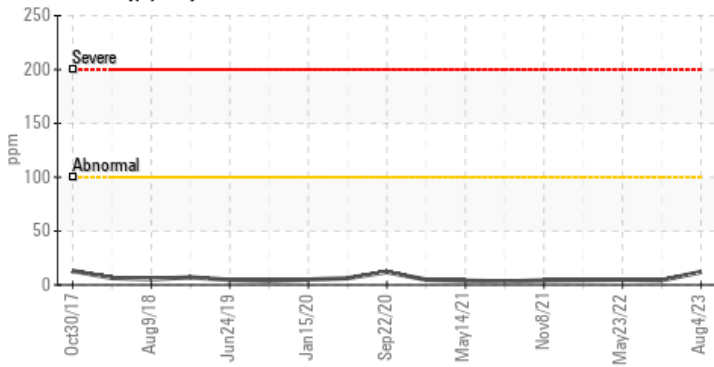


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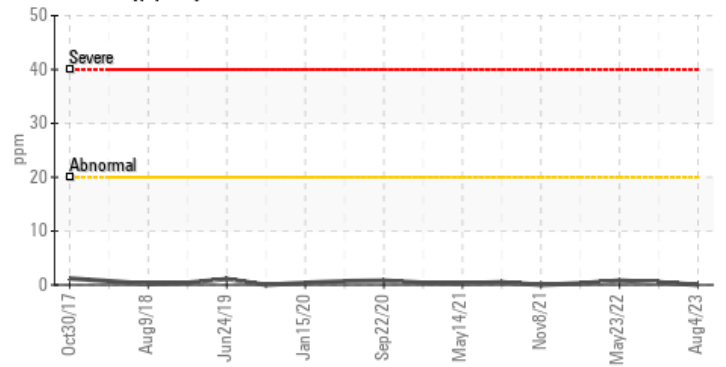


## GRAPHS

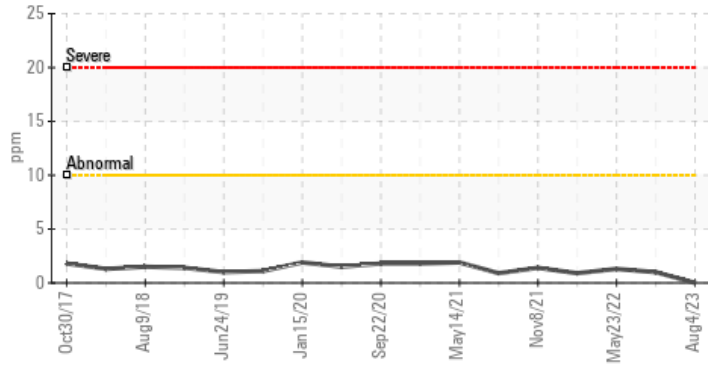
### Iron (ppm)



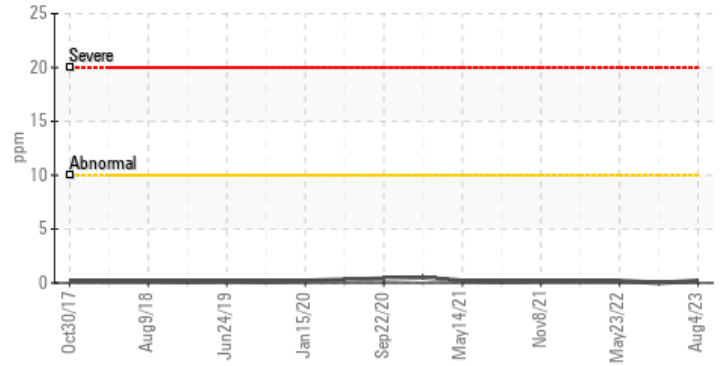
### Lead (ppm)



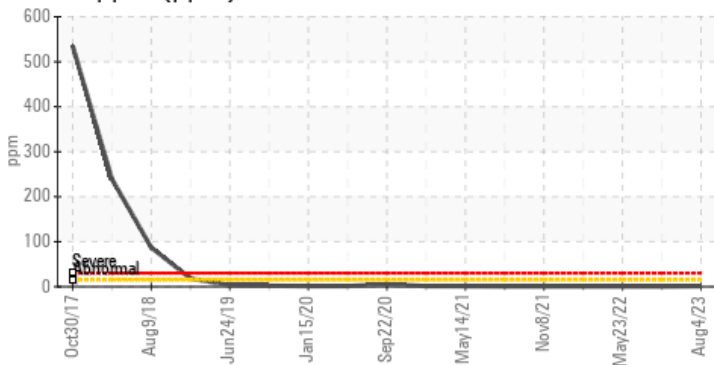
### Aluminum (ppm)



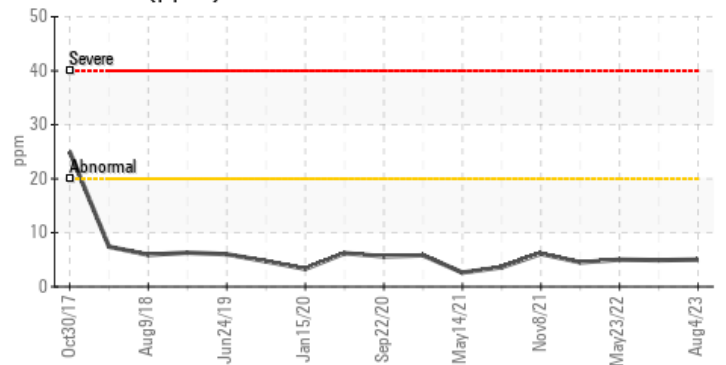
### Chromium (ppm)



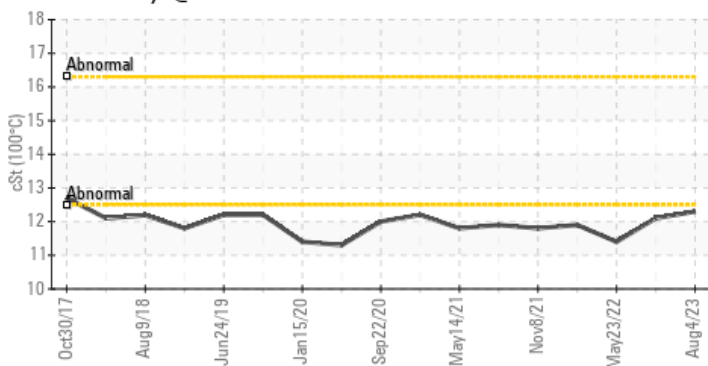
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

