



# CONSTRUCTION EQUIPMENT

372199 VOLVO A30G 753072 - DIESEL ENGINE



**Sample No:** VCP394713  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 372199



## SAMPLE INFORMATION

Sample Number	VCP394713	---	---	---
Sample Date	15 Jul 2023	---	---	---
Machine Hours	550	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

### Strongco Equipment

5179 Fountain St N.  
 Breslau, ON  
 CA N0B 1M0  
 Contact: Nick Sanders  
 nsanders@strongco.com  
 T: (519)744-3518  
 F: (519)744-3284



## OIL CONDITION

Visc @ 100°C	cSt	▲ 10.4	---	---	---
Oxidation (PA)	%	59	---	---	---



## CONTAMINATION

Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	81	---	---	---
Sulfation (PA)	%	54	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.7	---	---	---
Silicon	ppm	■ 43	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 4	---	---	---

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Fuel content negligible. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	■ 26	---	---	---
Copper	ppm	333	---	---	---
Lead	ppm	■ 10	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 84	---	---	---
Nickel	ppm	■ 1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 2	---	---	---
Manganese	ppm	■ 4	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	■ 2164	---	---	---
Magnesium	ppm	■ 27	---	---	---
Zinc	ppm	■ 1155	---	---	---
Phosphorus	ppm	■ 1064	---	---	---
Barium	ppm	■ <1	---	---	---
Boron	ppm	■ 37	---	---	---

**Depot:** CASKIT  
**Unique No:** 5616242  
**Signed:** Kevin Marson  
**Report Date:** 21 Jul 2023



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## GRAPHS

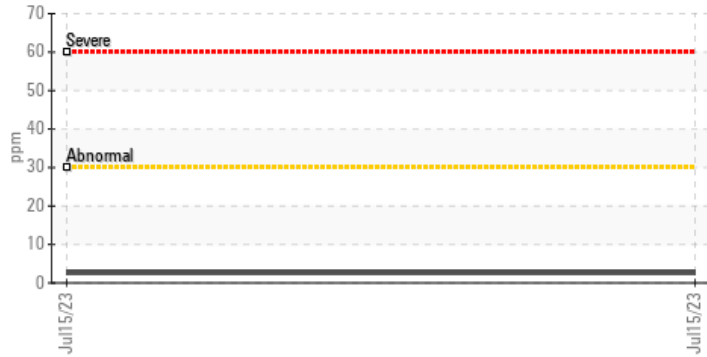
### Iron (ppm)



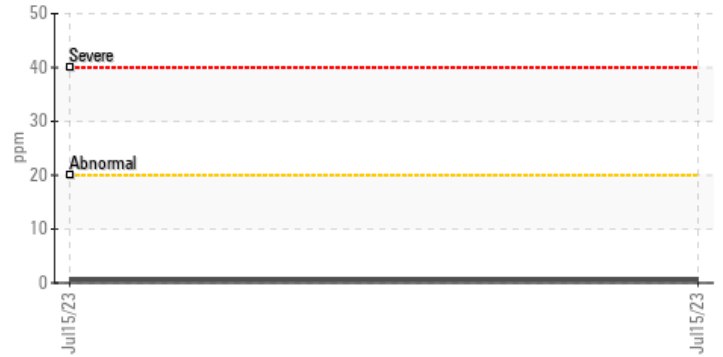
### Lead (ppm)



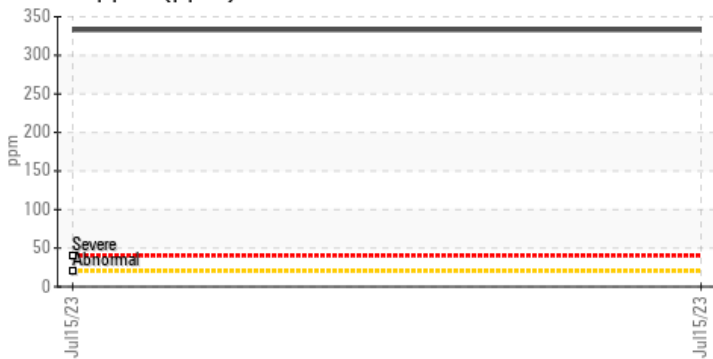
### Aluminum (ppm)



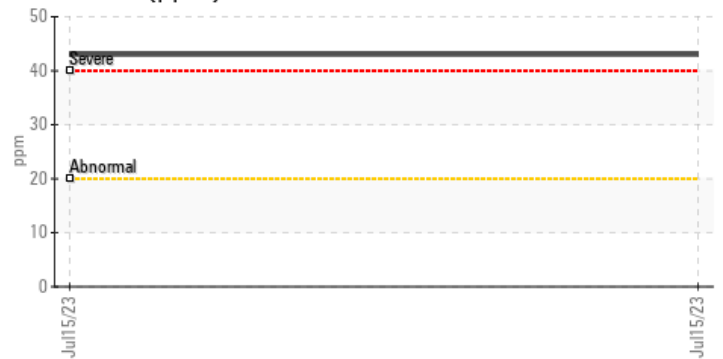
### Chromium (ppm)



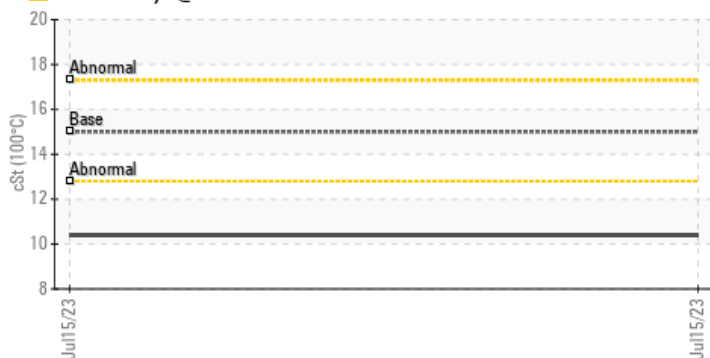
### Copper (ppm)



### Silicon (ppm)



### ▲ Viscosity @ 100°C



### Soot %

