



CONSTRUCTION EQUIPMENT

SWA504784 TAKEUCHI TL10VZ 410006998 - DIESEL ENGINE



Sample No: VCP452165
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA504784



SAMPLE INFORMATION

Sample Number	VCP452165	---	---	---
Sample Date	07 May 2024	---	---	---
Machine Hours	661	---	---	---
Oil Hours	661	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.9	---	---	---
Base Number (BN)	mg KOH/g	█ 8.2	---	---	---
Oxidation (PA)	%	78	---	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. The wear metal levels do not reflect the reported failure. 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.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	80	---	---	---
Sulfation (PA)	%	64	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 11	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 0	---	---	---



WEAR METALS

Iron	ppm	█ 58	---	---	---
Copper	ppm	█ 33	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 33	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 85	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 2170	---	---	---
Magnesium	ppm	█ 481	---	---	---
Zinc	ppm	█ 1377	---	---	---
Phosphorus	ppm	█ 1105	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	310	---	---	---

Depot: VOLVO0093
Unique No: 11019691
Signed: Don Baldrige
Report Date: 13 May 2024

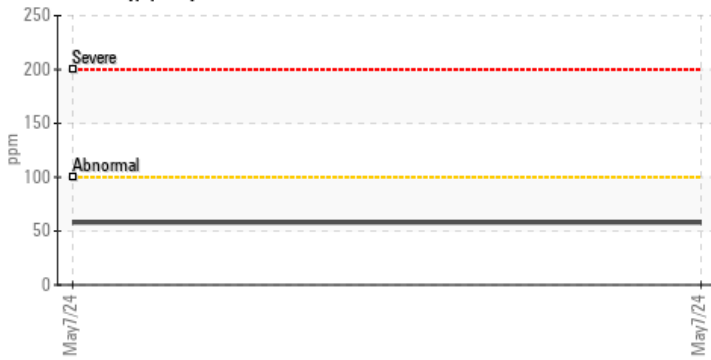


CONSTRUCTION EQUIPMENT



GRAPHS

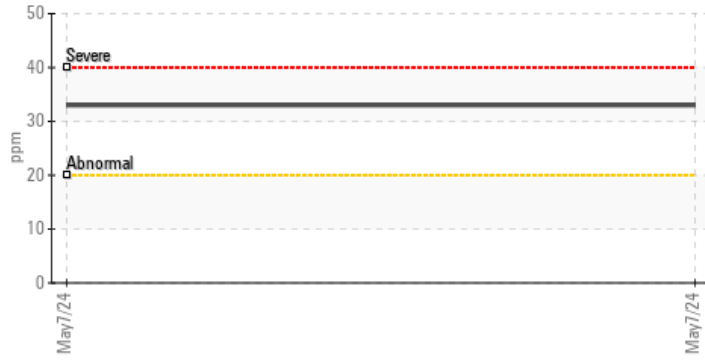
Iron (ppm)



Lead (ppm)



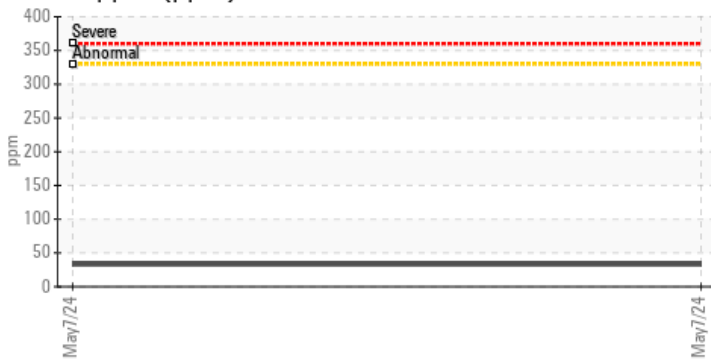
Aluminum (ppm)



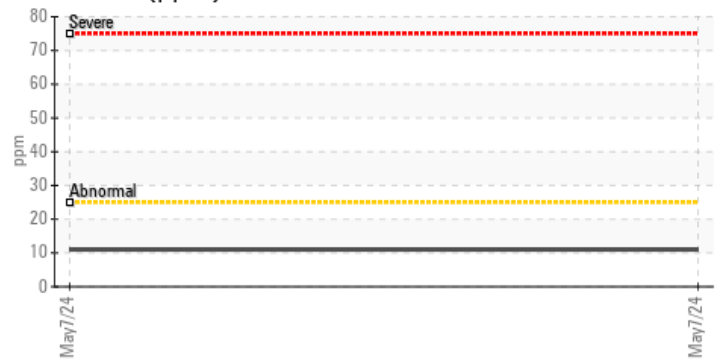
Chromium (ppm)



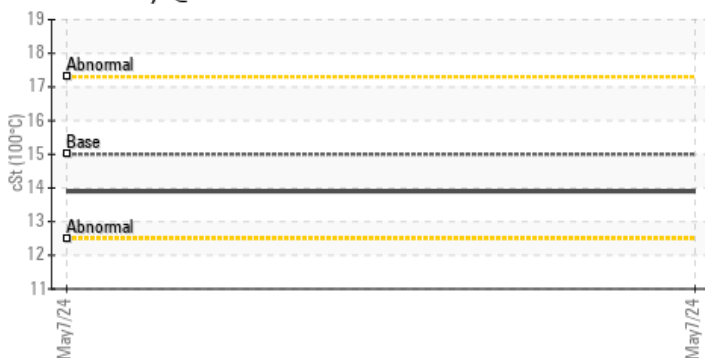
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

