



CONSTRUCTION EQUIPMENT

X27965 CASE CX220E 8H1126 - DIESEL ENGINE



Sample No: VCP379760
Oil Type: CASE 10W40
Job No: X27965



SAMPLE INFORMATION

Sample Number	VCP379760	---	---	---
Sample Date	26 Jul 2023	---	---	---
Machine Hours	492	---	---	---
Oil Hours	491	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.1	---	---	---
Base Number (BN)	mg KOH/g	█ 7.5	---	---	---
Oxidation (PA)	%	59	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Metal levels are typical for a new component breaking in. Light fuel dilution occurring. No other contaminants were detected 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.



CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	65	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	█ 1.3	---	---	---
Silicon	ppm	█ 70	---	---	---
Sodium	ppm	█ 7	---	---	---
Potassium	ppm	█ 13	---	---	---



WEAR METALS

Iron	ppm	█ 30	---	---	---
Copper	ppm	█ 18	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 54	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	4	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 2280	---	---	---
Magnesium	ppm	█ 307	---	---	---
Zinc	ppm	█ 1195	---	---	---
Phosphorus	ppm	█ 940	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 62	---	---	---

Depot: VOLVO2603
Unique No: 10576318
Signed: Wes Davis
Report Date: 31 Jul 2023

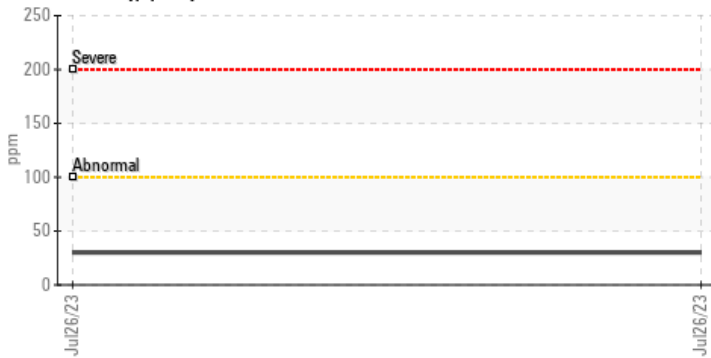


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GRAPHS

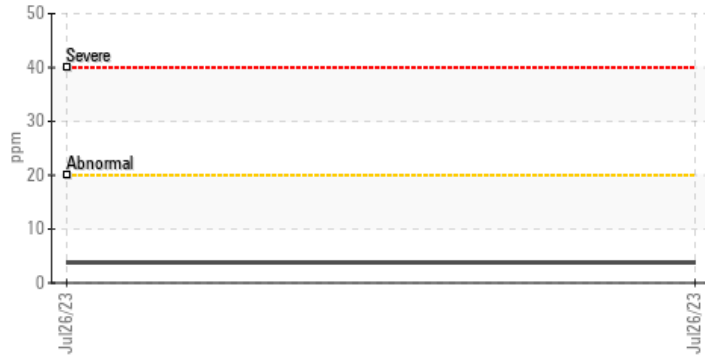
Iron (ppm)



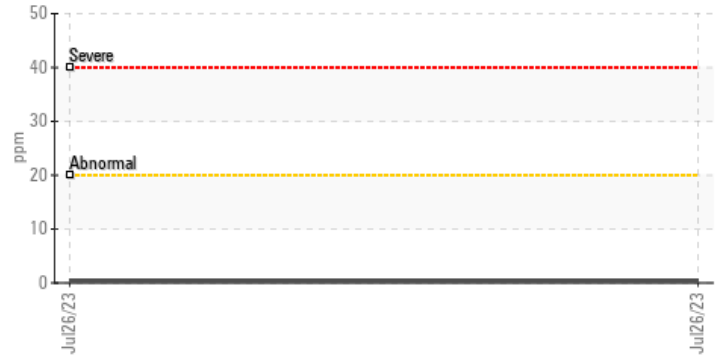
Lead (ppm)



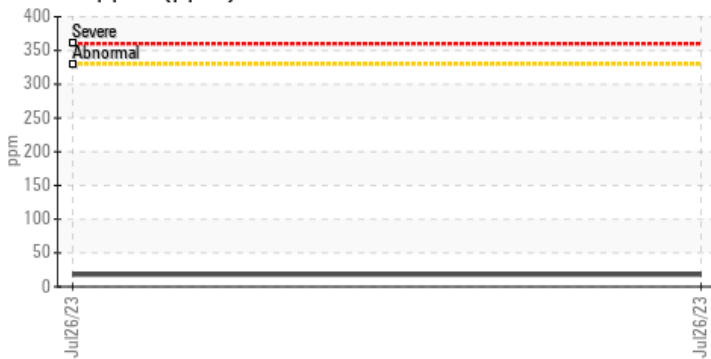
Aluminum (ppm)



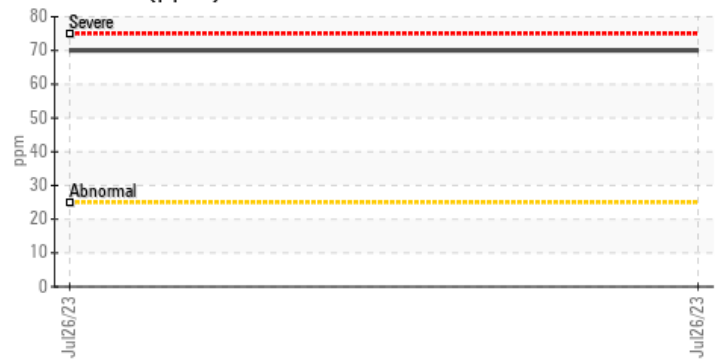
Chromium (ppm)



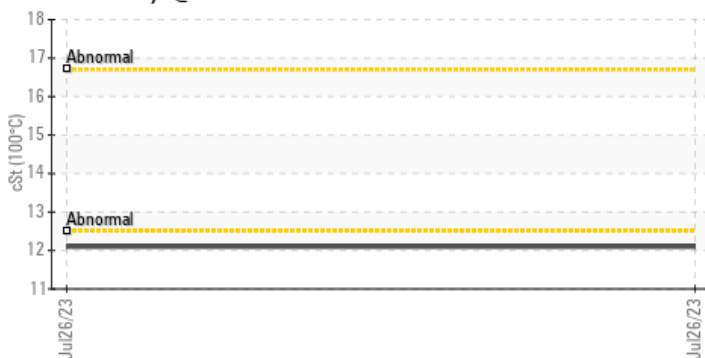
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

