



CONSTRUCTION EQUIPMENT

X27814 CASE CX220E 8H1120 - DIESEL ENGINE



Sample No: VCE010327
Oil Type: CASE 10W40
Job No: X27814



SAMPLE INFORMATION

Sample Number	VCE010327	---	---	---
Sample Date	20 Jun 2023	---	---	---
Machine Hours	506	---	---	---
Oil Hours	506	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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 SHREVEPORT, LA
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 Contact: MARILYN TIDWELL
 mtidwell@scottcompanies.com
 T:
 F: (318)677-2493



OIL CONDITION

Visc @ 100°C	cSt	▲ 12.2	---	---	---
Base Number (BN)	mg KOH/g	■ 8.0	---	---	---
Oxidation (PA)	%	66	---	---	---



CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	78	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 1.1	---	---	---
Silicon	ppm	▲ 94	---	---	---
Sodium	ppm	■ 8	---	---	---
Potassium	ppm	■ 8	---	---	---



WEAR METALS

Iron	ppm	■ 47	---	---	---
Copper	ppm	■ 39	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 43	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	6	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 2449	---	---	---
Magnesium	ppm	■ 280	---	---	---
Zinc	ppm	■ 1256	---	---	---
Phosphorus	ppm	■ 981	---	---	---
Barium	ppm	■ 5	---	---	---
Boron	ppm	■ 76	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO2603
Unique No: 10535841
Signed: Don Baldrige
Report Date: 30 Jun 2023

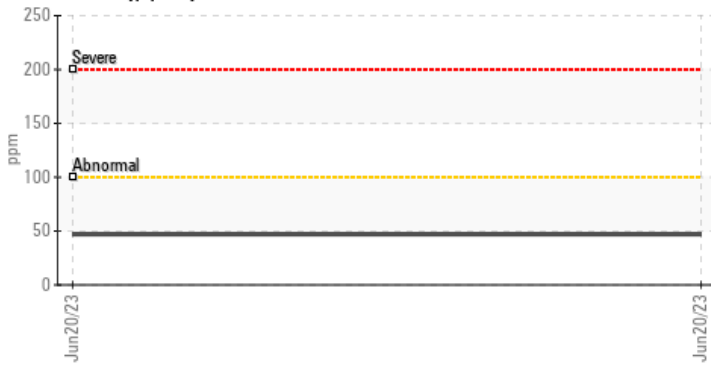


CONSTRUCTION EQUIPMENT



GRAPHS

Iron (ppm)



Lead (ppm)



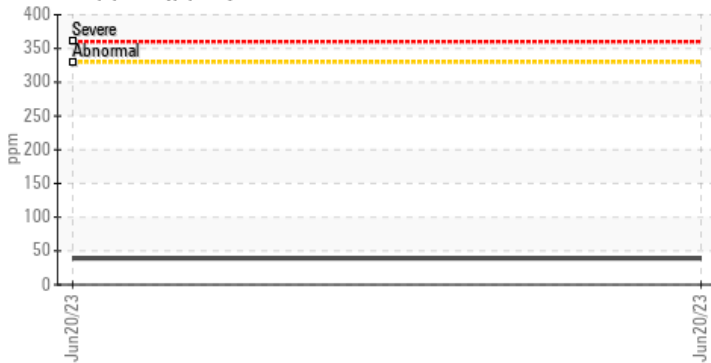
Aluminum (ppm)



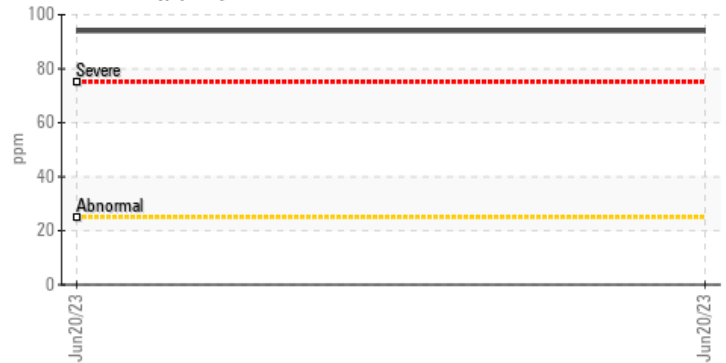
Chromium (ppm)



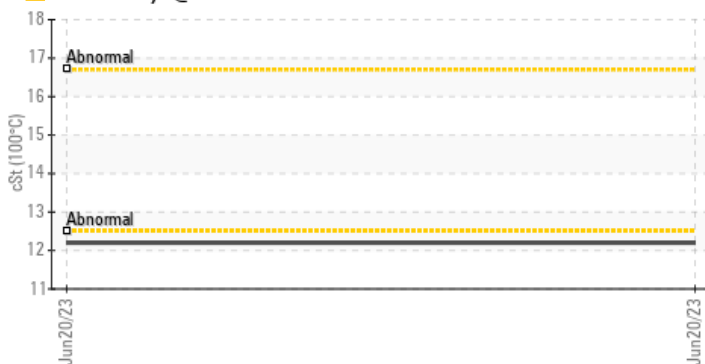
Copper (ppm)



▲ Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

