



CONSTRUCTION EQUIPMENT

PCH VOLVO L120H NG VC06073782 (S/N NOT GIVEN) - DIESEL ENGINE



Sample No: VC06073782
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40
Job No: PCH



SAMPLE INFORMATION

Sample Number	VC06073782	---	---	---
Sample Date	25 Jan 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	2011	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

POTTER COUNTY HIGHWAY DEPT
600 N. EAST STREET
GETTYSBURG, SD
US 57442
Contact: STEVE SMITH
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T: (605)765-9787
F: (605)769-1011



OIL CONDITION

Visc @ 100°C	cSt	█ 14.0	---	---	---
Base Number (BN)	mg KOH/g	█ 5.9	---	---	---
Oxidation (PA)	%	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. The aluminum level is abnormal. All other 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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.5	---	---	---
Nitration (PA)	%	80	---	---	---
Sulfation (PA)	%	66	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 9	---	---	---



WEAR METALS

Iron	ppm	█ 28	---	---	---
Copper	ppm	█ 9	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	▲ 19	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 35	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 1956	---	---	---
Magnesium	ppm	█ 220	---	---	---
Zinc	ppm	█ 1154	---	---	---
Phosphorus	ppm	█ 855	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 83	---	---	---

Depot: POTGET
Unique No: 10855873
Signed: Don Baldrige
Report Date: 31 Jan 2024

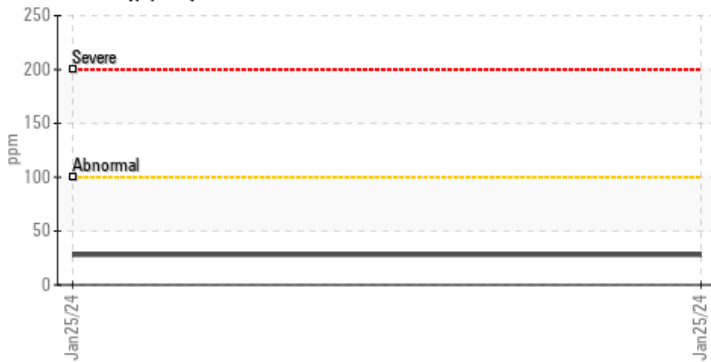


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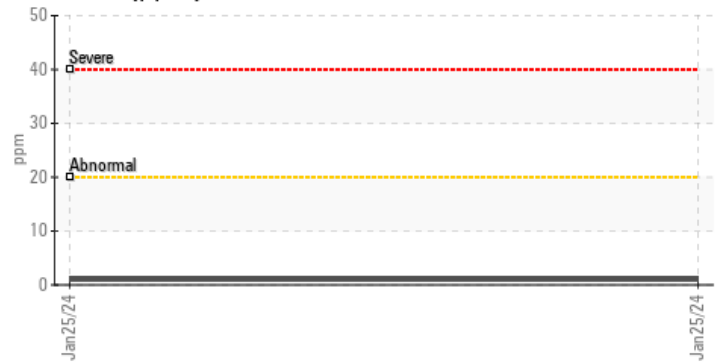


GRAPHS

Iron (ppm)



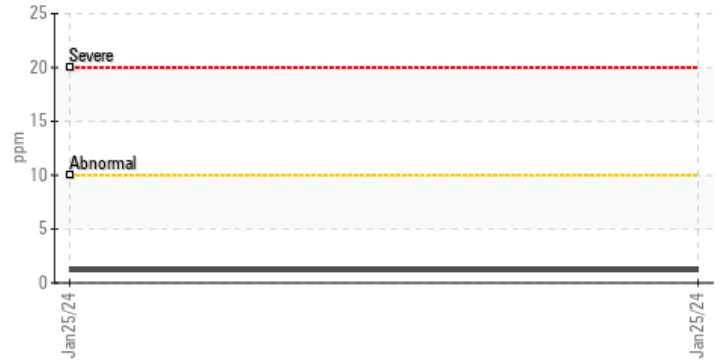
Lead (ppm)



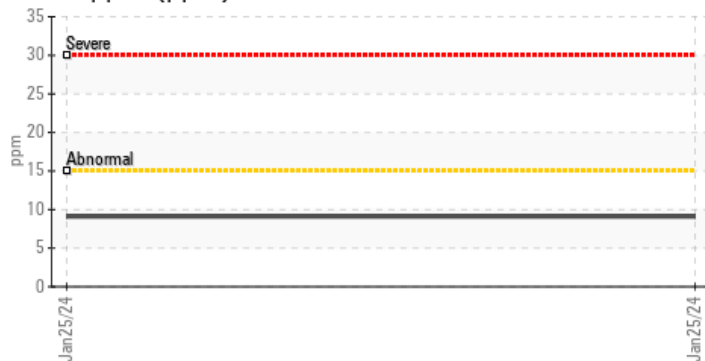
Aluminum (ppm)



Chromium (ppm)



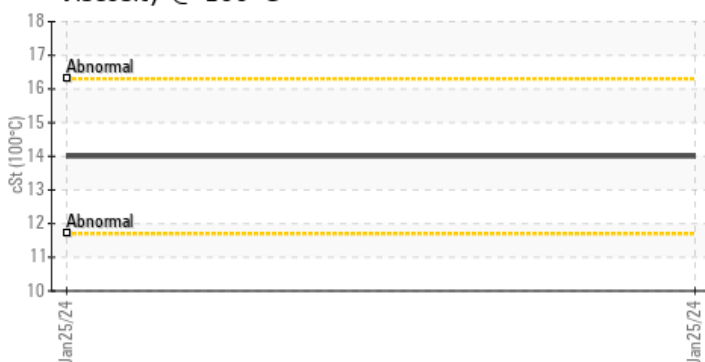
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

