CONSTRUCTION EQUIPMENT

SPM568443 CROSSTOWN CATERPILLAR 305.5 H5M04559 - RIGHT FINAL DRIVE

Sample No: VCP422852
Oil Type: GEAR OIL SAE 75W90
Job No: SPM568443 CROSSTOWN

ALTA EQUIPMENT CO - ORLAND PARK
5000 INDUSTRIAL HWY
GARY, IN
US 46406
Contact: DAVE ENG
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T: (312)350-2560
F:

SAMPLE INFORMATION

Sample Number		**VCP422852**	---	---	---
Sample Date		**06 Jul 2023**	---	---	---
Machine Hours		**2444**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Changed**	---	---	---
Sample Status		**ABNORMAL**	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	**173**	---	---	---

CONTAMINATION

Silicon	ppm	▲ **209**	---	---	---
Sodium	ppm	**5**	---	---	---
Potassium	ppm	**17**	---	---	---

WEAR METALS

Iron	ppm	▲ **963**	---	---	---
Copper	ppm	**4**	---	---	---
Lead	ppm	**0**	---	---	---
Tin	ppm	**0**	---	---	---
Aluminum	ppm	▲ **45**	---	---	---
Chromium	ppm	**10**	---	---	---
Molybdenum	ppm	**<1**	---	---	---
Nickel	ppm	**3**	---	---	---
Titanium	ppm	**2**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**7**	---	---	---
Vanadium	ppm	**<1**	---	---	---

ADDITIVES

Calcium	ppm	**250**	---	---	---
Magnesium	ppm	**35**	---	---	---
Zinc	ppm	**37**	---	---	---
Phosphorus	ppm	**1762**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**309**	---	---	---

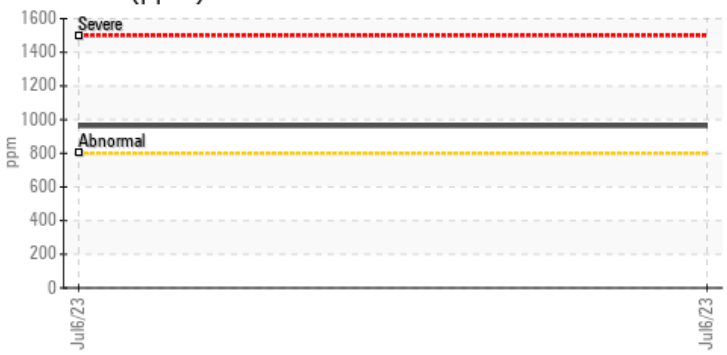
Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Confirm oil type. The condition of the oil is acceptable for the time in service.

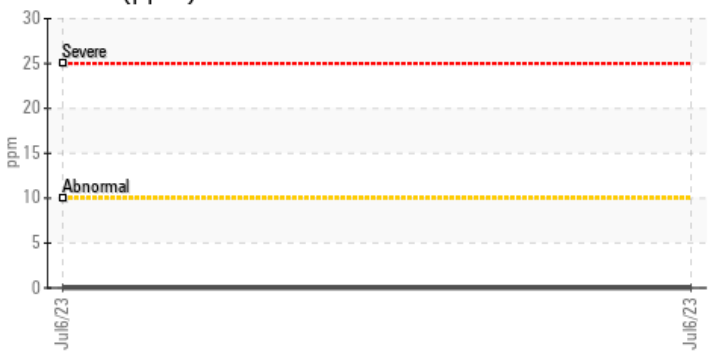
Depot: VOLVO8885
Unique No: 10560801
Signed: Don Baldridge
Report Date: 18 Jul 2023

GRAPHS

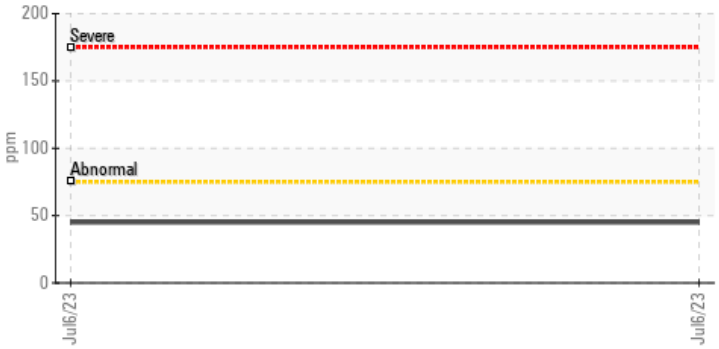
Iron (ppm)



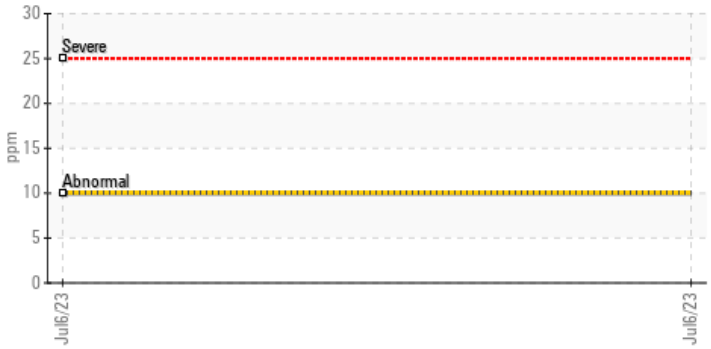
Lead (ppm)



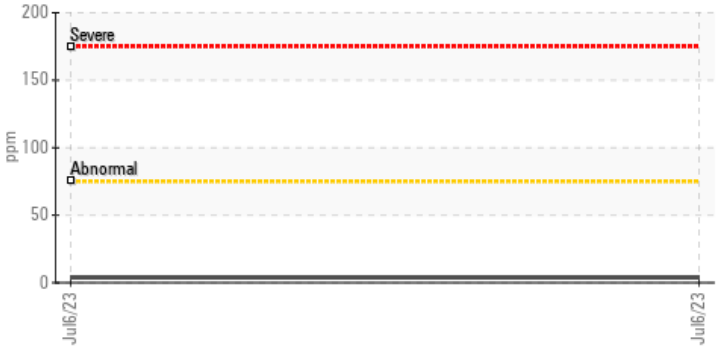
Aluminum (ppm)



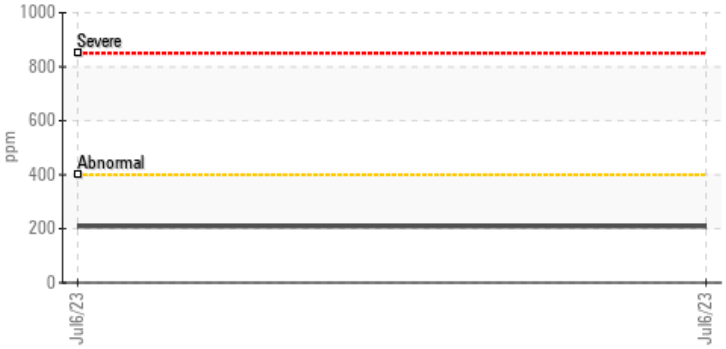
Chromium (ppm)



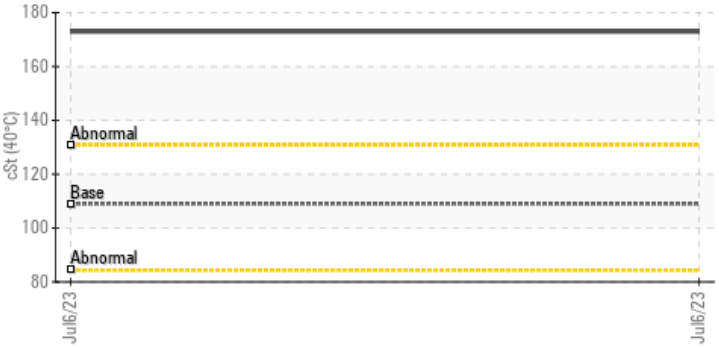
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives