



CONSTRUCTION EQUIPMENT

5001BO VOLVO A40F 12323 - REAR AXLE



Sample No: VCP244902
Oil Type: GEAR OIL SAE 85W140
Job No: 5001BO



SAMPLE INFORMATION

Sample Number	VCP244902	---	---	---
Sample Date	22 Jun 2019	---	---	---
Machine Hours	6633	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

PENNSY SUPPLY
 200 BURKHOLDER DRIVE
 EPHRATA, PA
 US 17522
 Contact: TYLER MADENFORD



OIL CONDITION

Visc @ 40°C	cSt	▲ 52.34	---	---	---
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T: (717)859-2132
 F:



CONTAMINATION

Water	%	▲ 0.585	---	---	---
Silicon	ppm	■ 22	---	---	---
Sodium	ppm	■ <1	---	---	---
Potassium	ppm	■ 12	---	---	---

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Excessive free water present. There is a moderate concentration of water present in the oil. The oil viscosity is lower than normal. Confirm oil type.



WEAR METALS

Iron	ppm	▲ 422	---	---	---
Copper	ppm	■ 5	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 9	---	---	---
Chromium	ppm	■ 4	---	---	---
Molybdenum	ppm	■ 0	---	---	---
Nickel	ppm	▲ 2	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	■ 14	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 390	---	---	---
Magnesium	ppm	■ 12	---	---	---
Zinc	ppm	■ 58	---	---	---
Phosphorus	ppm	■ 1891	---	---	---
Barium	ppm	■ 1	---	---	---
Boron	ppm	■ 19	---	---	---

Depot: PENEPH
Unique No: 8653886
Signed: Jonathan Hester
Report Date: 03 Jul 2019

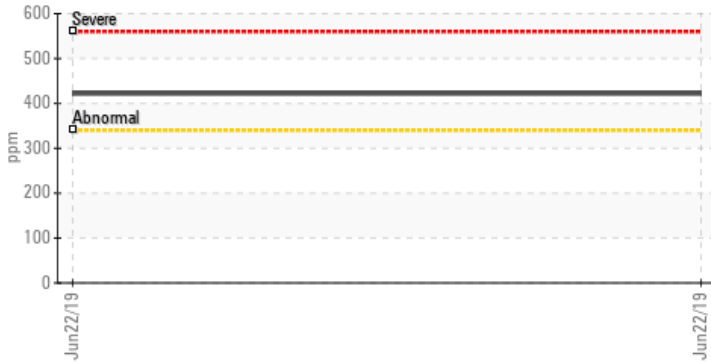


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GRAPHS

▲ Iron (ppm)



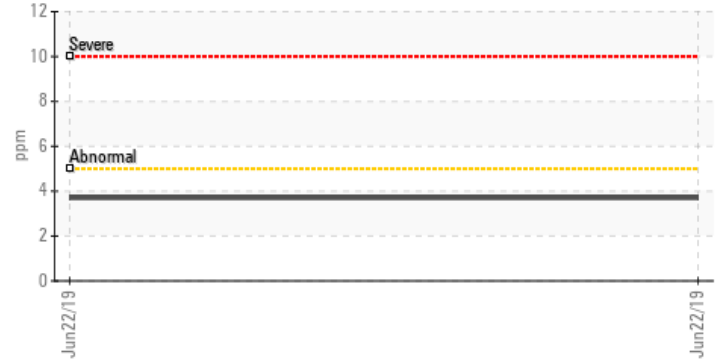
Lead (ppm)



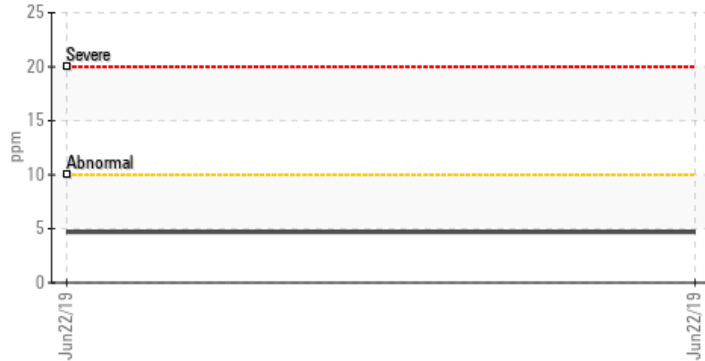
Aluminum (ppm)



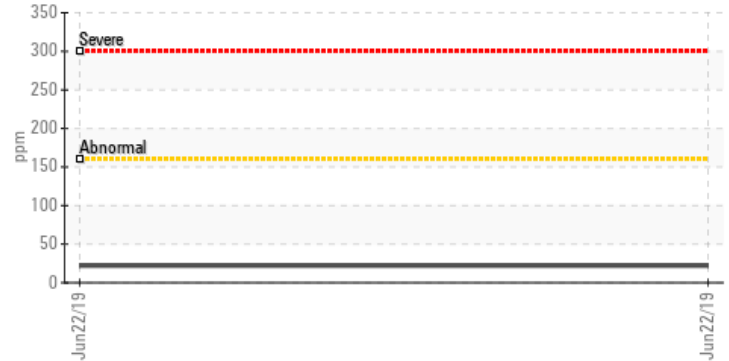
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 40°C



▲ Water

