



CONSTRUCTION EQUIPMENT

VOLVO A45G 342256 - BRAKE COOLING SYSTEM



Sample No: VCP260323
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No:



SAMPLE INFORMATION

Sample Number	VCP260323	---	---	---
Sample Date	01 Apr 2020	---	---	---
Machine Hours	4000	---	---	---
Oil Hours	2000	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

Strongco Equipment
 5179 Fountain St N.
 Breslau, ON
 CA N0B 1M0
 Contact: Matt Crisci
 mcrisci@strongco.com
 T: (519)744-3518
 F: (519)744-3284

OIL CONDITION

Visc @ 40°C	cSt	▲ 40.5	---	---	---
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CONTAMINATION

Silicon	ppm	■ 17	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 1	---	---	---

WEAR METALS

Iron	ppm	■ 41	---	---	---
Copper	ppm	■ 132	---	---	---
Lead	ppm	■ 3	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 0	---	---	---
Nickel	ppm	■ 6	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	3749	---	---	---
Magnesium	ppm	■ 10	---	---	---
Zinc	ppm	1584	---	---	---
Phosphorus	ppm	■ 1316	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 108	---	---	---

Diagnosis
 Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as VOLVO PREMIUM GEAR OIL 80W-90 GL-5, however, a fluid match indicates that this fluid is SAE 75W80 Wet Brake Transaxle Oil. Please confirm the fluid type and grade on your next sample. All component wear rates are normal. There is no indication of any contamination in the fluid. Viscosity of sample indicates oil is within SAE 75W80 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the fluid is acceptable for the time in service.

Depot: CASKIT
Unique No: 5032241
Signed: Kevin Marson
Report Date: 14 Apr 2020

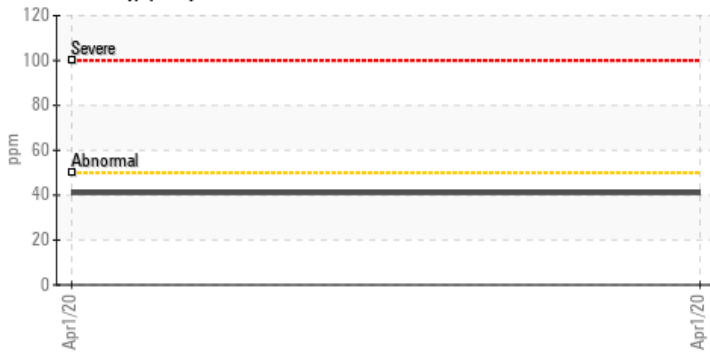


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GRAPHS

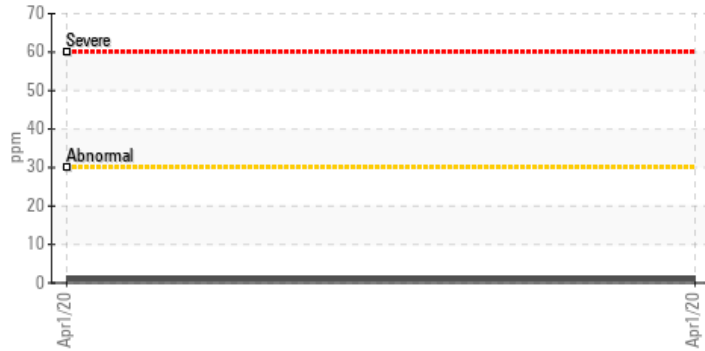
Iron (ppm)



Lead (ppm)



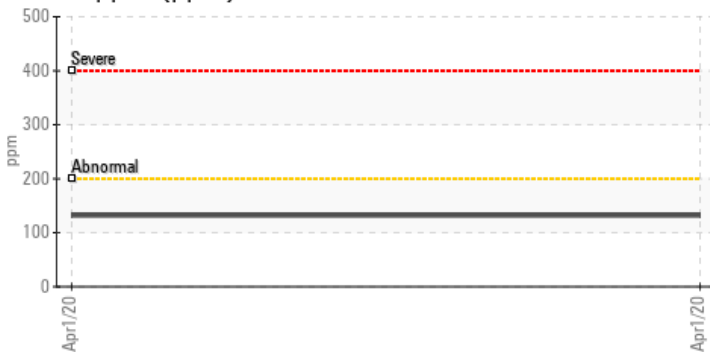
Aluminum (ppm)



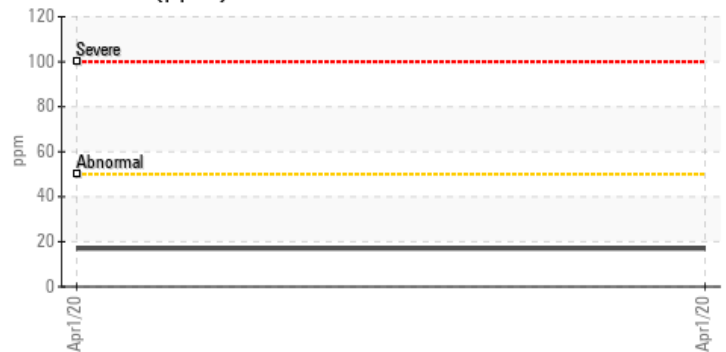
Chromium (ppm)



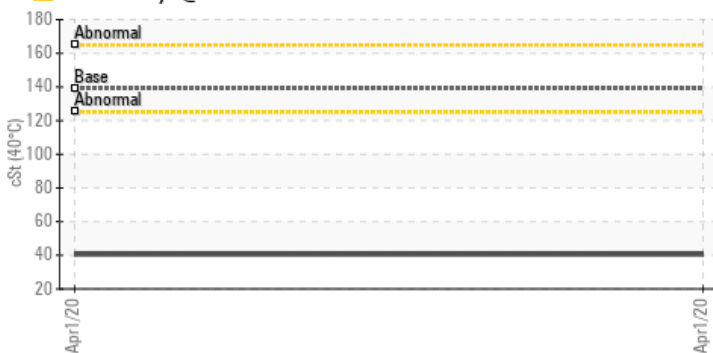
Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 40°C



Additives

