



CONSTRUCTION EQUIPMENT

VOLVO A40G 341497 - DIESEL ENGINE



Sample No: VCE035201

Oil Type: SAE 0W40

Job No:



SAMPLE INFORMATION

Sample Number	VCE035201	PP092135	---	---
Sample Date	18 Feb 2020	04 Jul 2017	---	---
Machine Hours	6464	498	---	---
Oil Hours	350	498	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

STRONGCO EQUIPMENT
 655 MOUNTDALE AVENUE
 THUNDER BAY, ON
 CA P7E 6E5
 Contact: Jean-Luc Antier
 jantier@strongco.com
 T: (807)475-3052
 F: (807)473-0921



OIL CONDITION

Visc @ 40°C	cSt	---	73.5	---	---
Visc @ 100°C	cSt	█ 13.4	11.1	---	---
Viscosity Index (VI)	Scale	---	█ 141	---	---
Oxidation (PA)	%	█ 57	█ 64	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



CONTAMINATION

Water	%	█ 0.047	---	---	---
Soot %	%	█ 0.1	█ 0	---	---
Nitration (PA)	%	█ 72	█ 69	---	---
Sulfation (PA)	%	█ 57	█ 61	---	---
Glycol	%	█ 0.0	NEG	---	---
Fuel	%	█ <1.0	█ 0.0	---	---
Silicon	ppm	█ 5	█ 25	---	---
Sodium	ppm	█ 1	█ 4	---	---
Potassium	ppm	█ <1	█ 3	---	---



WEAR METALS

Iron	ppm	█ 5	█ 22	---	---
Copper	ppm	█ 1	█ 26	---	---
Lead	ppm	█ <1	█ 2	---	---
Tin	ppm	█ <1	█ 4	---	---
Aluminum	ppm	█ 3	█ 2	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ <1	█ 45	---	---
Nickel	ppm	█ <1	█ 1	---	---
Titanium	ppm	█ <1	0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ 2	---	---
Vanadium	ppm	█ 0	0	---	---



ADDITIVES

Calcium	ppm	█ 2291	█ 1303	---	---
Magnesium	ppm	█ 17	█ 839	---	---
Zinc	ppm	█ 1141	█ 1146	---	---
Phosphorus	ppm	█ 1001	█ 954	---	---
Barium	ppm	█ <1	█ 2	---	---
Boron	ppm	█ 2	█ 43	---	---

Depot: CHATHU
Unique No: 5006656
Signed: Wes Davis
Report Date: 24 Feb 2020

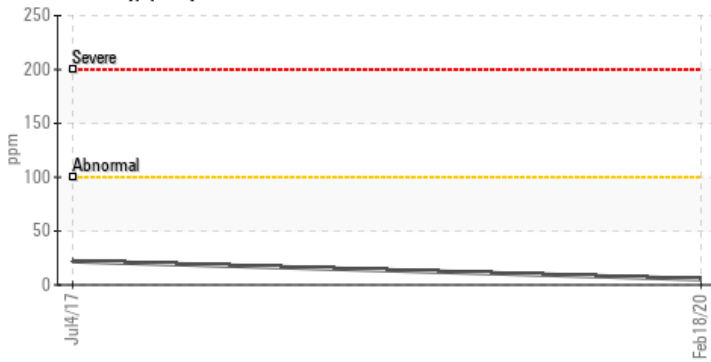


CONSTRUCTION EQUIPMENT



GRAPHS

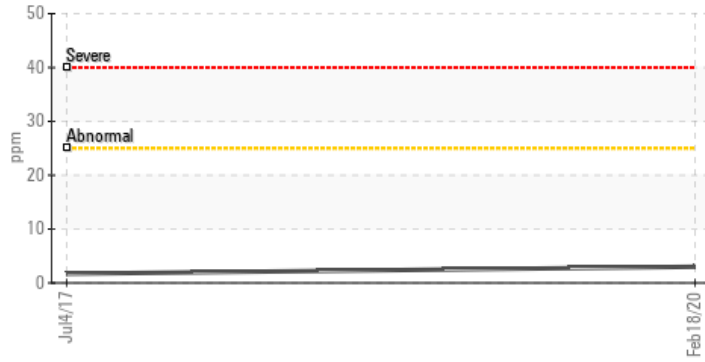
Iron (ppm)



Lead (ppm)



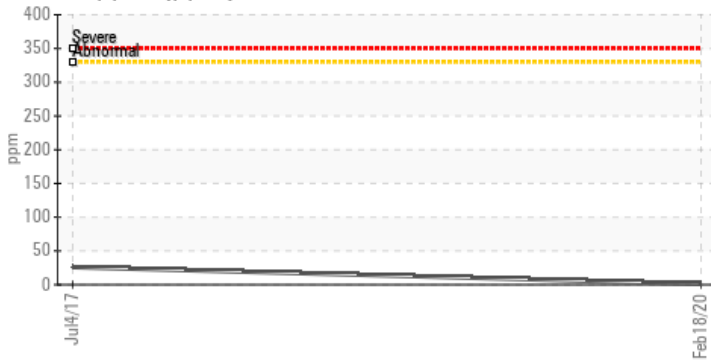
Aluminum (ppm)



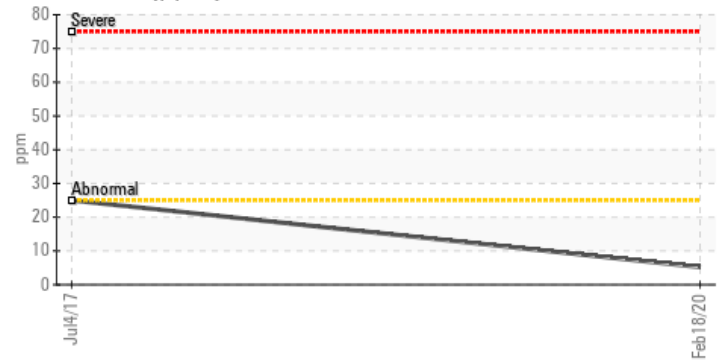
Chromium (ppm)



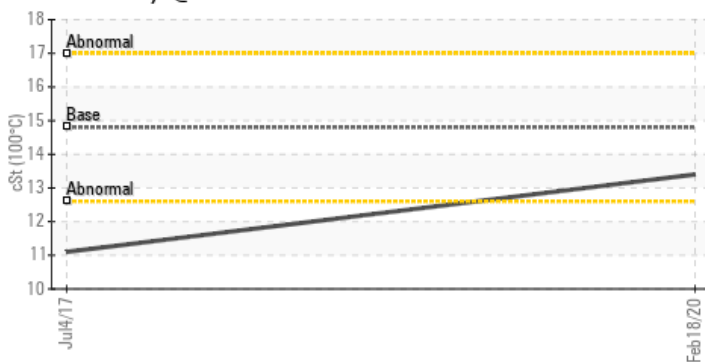
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Soot %

