



CONSTRUCTION EQUIPMENT

SWO-071298 TRIPLE R VOLVO A30G 742330 - DIESEL ENGINE



Sample No: VCP450994
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-071298 TRIPLE R



SAMPLE INFORMATION

Sample Number	VCP450994	VCP234205	---	---
Sample Date	17 Apr 2024	15 Jun 2020	---	---
Machine Hours	3480	953	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

COWIN EQUIPMENT COMPANY INC

1501 HWY 78 EAST
 OXFORD, AL
 US 36203

Contact: MIKE PATTY
 mpatty@cowin.com
 T: (256)832-5053
 F: (256)831-4295



OIL CONDITION

Visc @ 100°C	cSt	█ 12.2	█ 12.0	---	---
Base Number (BN)	mg KOH/g	█ 9.7	---	---	---
Oxidation (PA)	%	76	82	---	---

Diagnosis

Resample at the next service interval to monitor. All 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	NEG	---	---
Soot %	%	█ 0.2	█ 0.3	---	---
Nitration (PA)	%	57	66	---	---
Sulfation (PA)	%	60	65	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 6	█ 12	---	---
Sodium	ppm	█ 3	█ 2	---	---
Potassium	ppm	█ 0	█ 2	---	---



WEAR METALS

Iron	ppm	█ 8	█ 10	---	---
Copper	ppm	█ 5	█ 144	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ <1	█ 0	---	---
Aluminum	ppm	█ 1	█ 2	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 45	█ 29	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1557	█ 1726	---	---
Magnesium	ppm	█ 454	█ 388	---	---
Zinc	ppm	█ 914	█ 886	---	---
Phosphorus	ppm	█ 816	792	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 72	█ 40	---	---

Depot: COWOXF

Unique No: 10990959

Signed: Sean Felton

Report Date: 24 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS

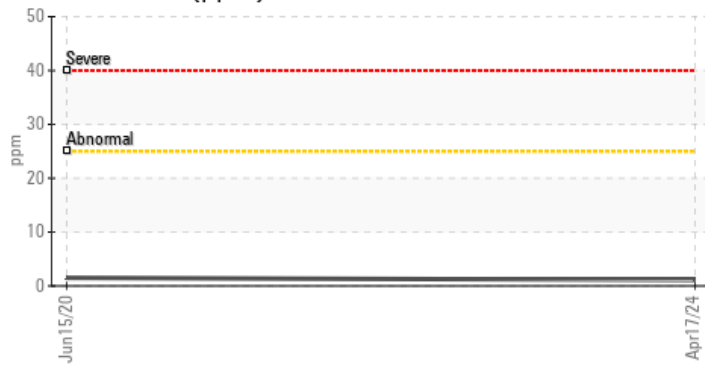
Iron (ppm)



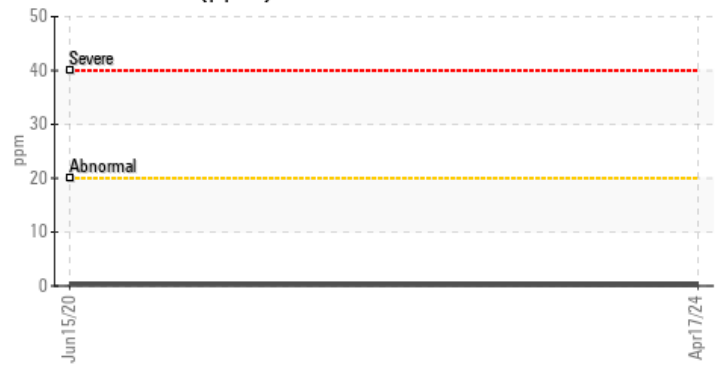
Lead (ppm)



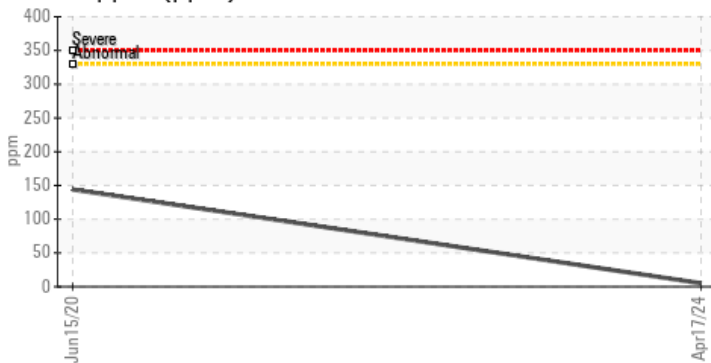
Aluminum (ppm)



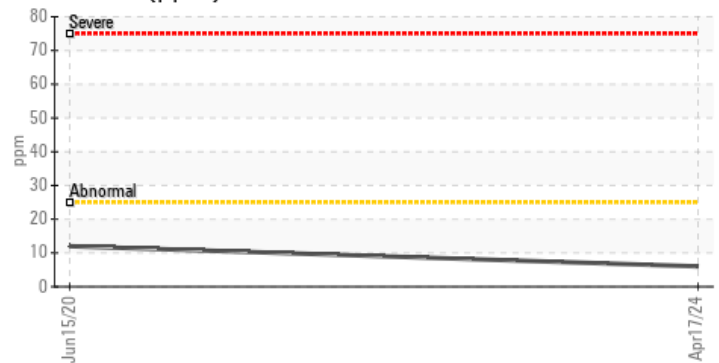
Chromium (ppm)



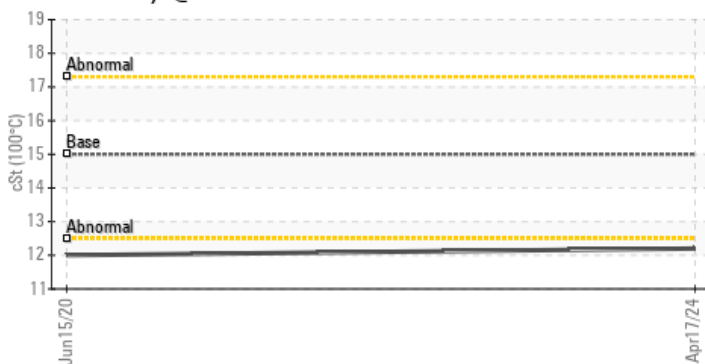
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

