



CONSTRUCTION EQUIPMENT

703448 RITCHIES BROS VOLVO L90H 627943 - DIESEL ENGINE



Sample No: VCP451279
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 703448 RITCHIES BROS



ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC
9601 BOGGY CREEK RD
ORLANDO, FL
US 32824
Contact: Robert LaPlante
robert.laplante@altg.com
T: (407)508-9736
F: (407)659-8720



SAMPLE INFORMATION

Sample Number	VCP451279	---	---	---
Sample Date	29 Apr 2024	---	---	---
Machine Hours	5736	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	█ 12.5	---	---	---
Base Number (BN)	mg KOH/g	█ 9.8	---	---	---
Oxidation (PA)	%	71	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	55	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 13	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ <1	---	---	---



WEAR METALS

Iron	ppm	█ 18	---	---	---
Copper	ppm	█ 4	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	▲ 10	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	█ 41	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 4	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 1473	---	---	---
Magnesium	ppm	█ 640	---	---	---
Zinc	ppm	█ 1105	---	---	---
Phosphorus	ppm	█ 943	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 43	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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 suitable for further service.

Depot: VOLVO0096
Unique No: 11007264
Signed: Jonathan Hester
Report Date: 06 May 2024

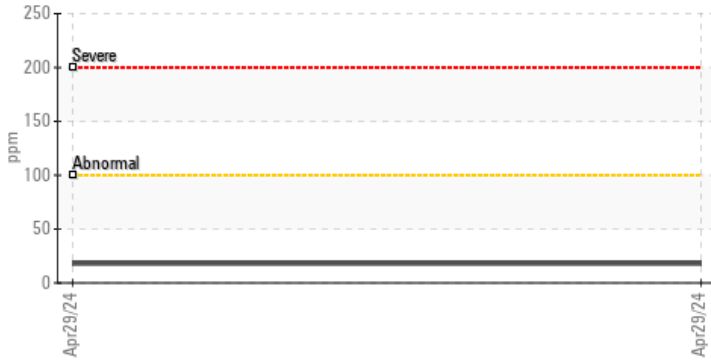


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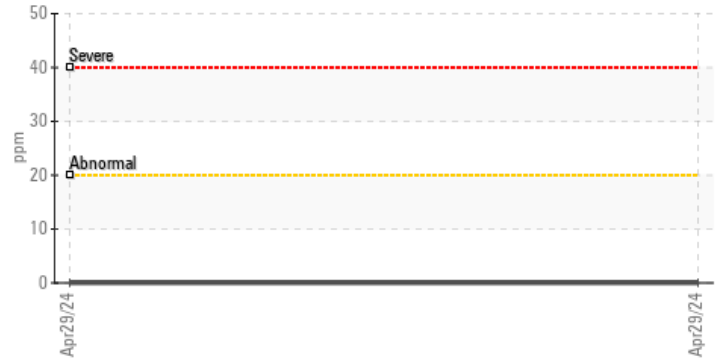


GRAPHS

Iron (ppm)



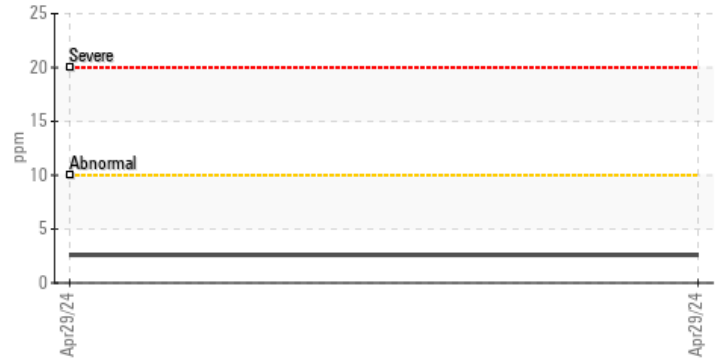
Lead (ppm)



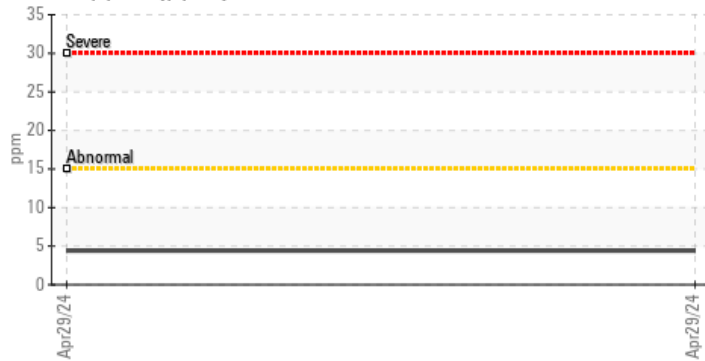
Aluminum (ppm)



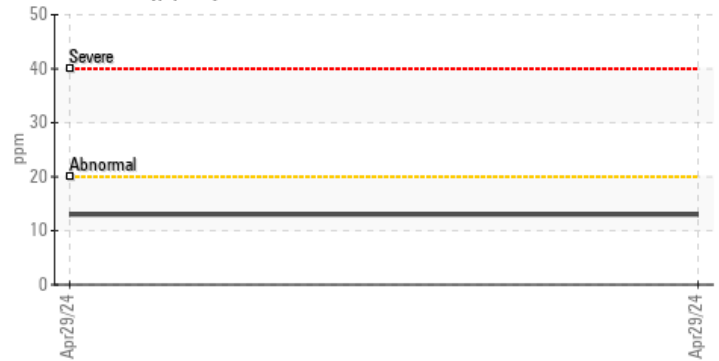
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

