



CONSTRUCTION EQUIPMENT

2861-1 INGERSOLL RAND SD70D 141108 - DIESEL ENGINE



Sample No: VCP445930
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 2861-1



SAMPLE INFORMATION

Sample Number	VCP445930	---	---	---
Sample Date	05 Apr 2024	---	---	---
Machine Hours	7073	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.2	---	---	---
Base Number (BN)	mg KOH/g	■ 8.7	---	---	---
Oxidation (PA)	%	59	---	---	---

Diagnosis

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. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	71	---	---	---
Sulfation (PA)	%	50	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 7.6	---	---	---
Silicon	ppm	■ 19	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 2	---	---	---



WEAR METALS

Iron	ppm	■ 33	---	---	---
Copper	ppm	■ 3	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 6	---	---	---
Chromium	ppm	■ 6	---	---	---
Molybdenum	ppm	■ 52	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 1202	---	---	---
Magnesium	ppm	■ 836	---	---	---
Zinc	ppm	■ 1145	---	---	---
Phosphorus	ppm	■ 965	---	---	---
Barium	ppm	■ 1	---	---	---
Boron	ppm	■ 7	---	---	---

Depot: VOLVO1023
Unique No: 10979831
Signed: Wes Davis
Report Date: 19 Apr 2024



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GRAPHS

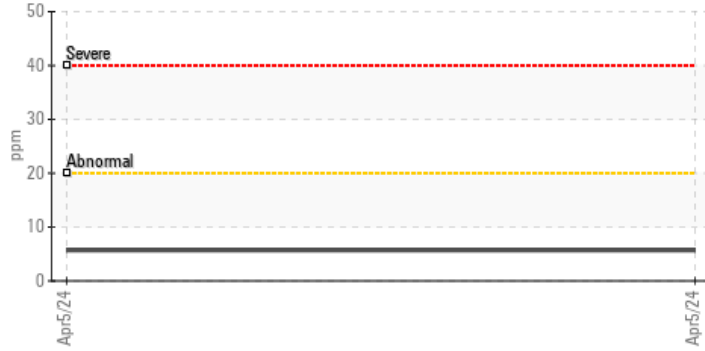
Iron (ppm)



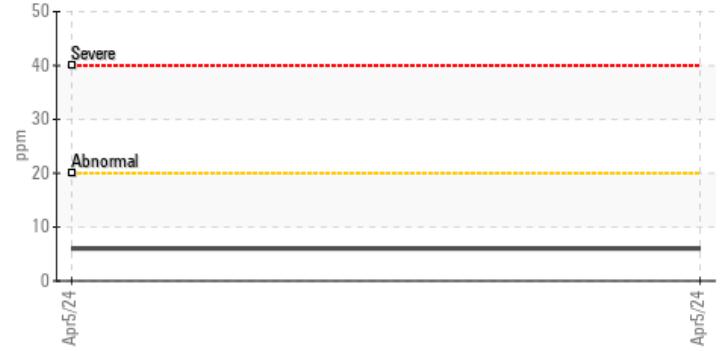
Lead (ppm)



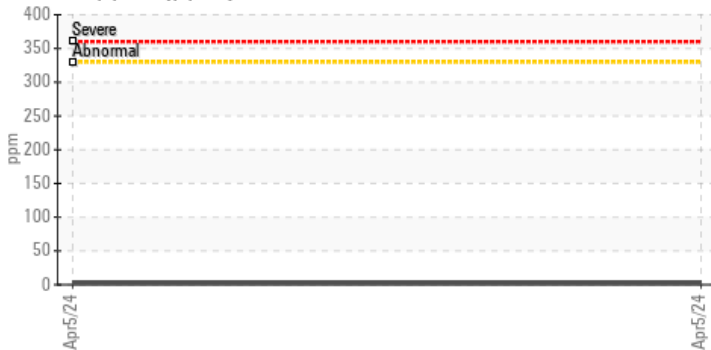
Aluminum (ppm)



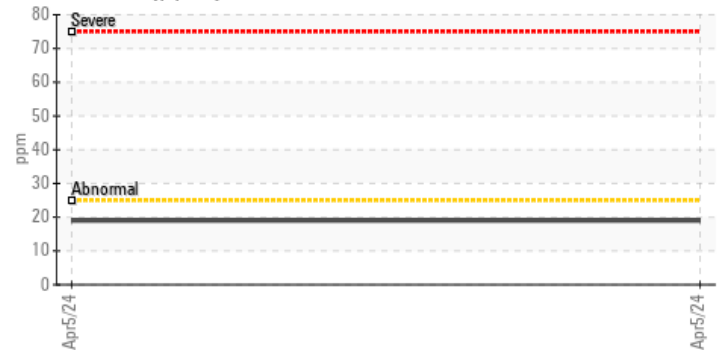
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

