



CONSTRUCTION EQUIPMENT

HERC VOLVO A30G 753394 - DIESEL ENGINE



Sample No: VCP431641
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: HERC



SAMPLE INFORMATION

Sample Number	VCP431641	---	---	---
Sample Date	19 Oct 2023	---	---	---
Machine Hours	5132	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ATTENTION	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 10.6	---	---	---
Base Number (BN)	mg KOH/g	■ 7.4	---	---	---
Oxidation (PA)	%	■ 53	---	---	---



CONTAMINATION

Soot %	%	■ 0.7	---	---	---
Nitration (PA)	%	■ 74	---	---	---
Sulfation (PA)	%	■ 55	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	■ 0.9	---	---	---
Silicon	ppm	■ 5	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 2	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



WEAR METALS

Iron	ppm	■ 22	---	---	---
Copper	ppm	■ 7	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 5	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 61	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	■ <1	---	---	---



ADDITIVES

Calcium	ppm	■ 1432	---	---	---
Magnesium	ppm	■ 841	---	---	---
Zinc	ppm	■ 1091	---	---	---
Phosphorus	ppm	■ 868	---	---	---
Barium	ppm	■ <1	---	---	---
Boron	ppm	■ 18	---	---	---

Depot: VOLVO0093
Unique No: 10723717
Signed: Jonathan Hester
Report Date: 03 Nov 2023



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GRAPHS

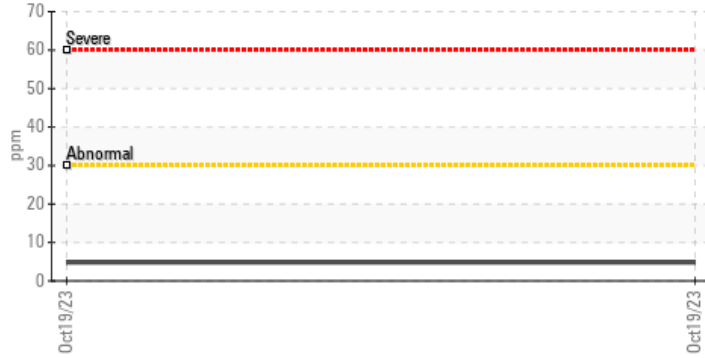
Iron (ppm)



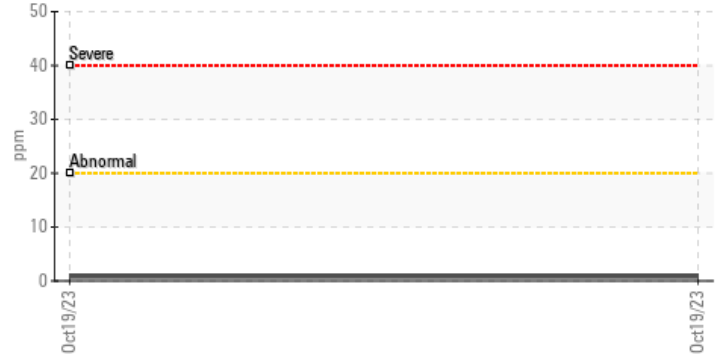
Lead (ppm)



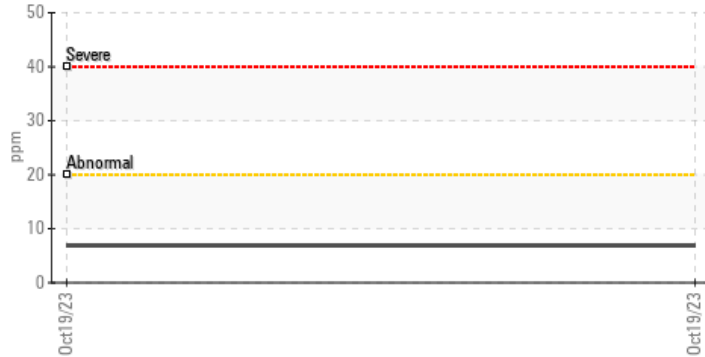
Aluminum (ppm)



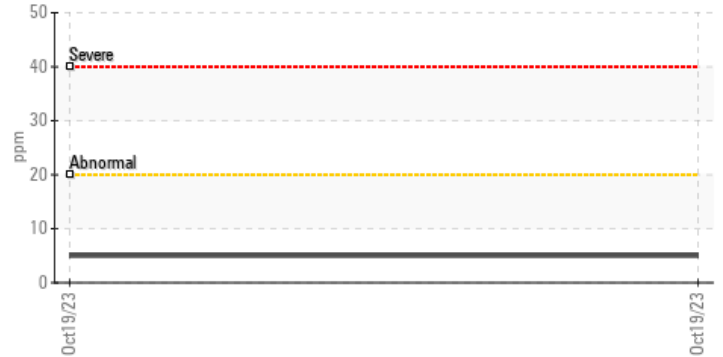
Chromium (ppm)



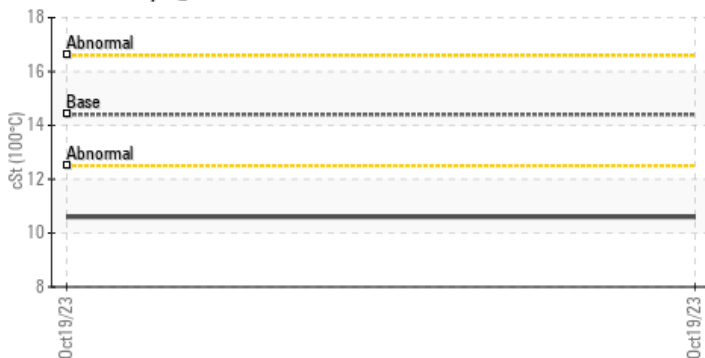
Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

