



CONSTRUCTION EQUIPMENT

X48628 HOOVER MASON VOLVO ECR145 3 15949 - DIESEL ENGINE



Sample No: VCP416090
Oil Type: {unknown}
Job No: X48628 HOOVER MASON



SAMPLE INFORMATION

Sample Number	VCP416090	---	---	---
Sample Date	26 Jun 2024	---	---	---
Machine Hours	5327	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 2.8	---	---	---
Base Number (BN)	mg KOH/g	■ 6.8	---	---	---
Oxidation (PA)	%	43	---	---	---

Diagnosis

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	52	---	---	---
Sulfation (PA)	%	42	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 56.0	---	---	---
Silicon	ppm	■ 11	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 0	---	---	---



WEAR METALS

Iron	ppm	■ 11	---	---	---
Copper	ppm	■ 1	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 17	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	785	---	---	---
Magnesium	ppm	■ 224	---	---	---
Zinc	ppm	515	---	---	---
Phosphorus	ppm	439	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 18	---	---	---

Depot: VOLVO0123
Unique No: 11102467
Signed: Jonathan Hester
Report Date: 03 Jul 2024



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GRAPHS

Iron (ppm)



Lead (ppm)



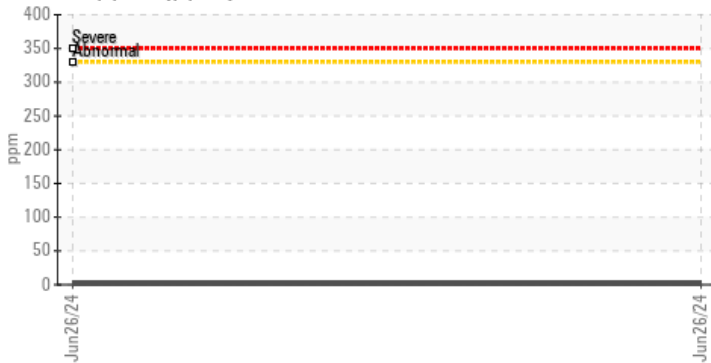
Aluminum (ppm)



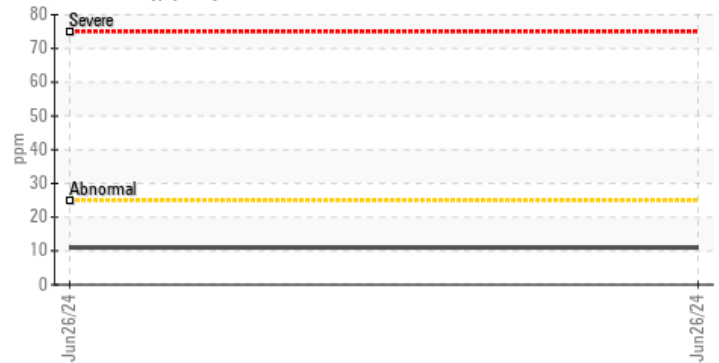
Chromium (ppm)



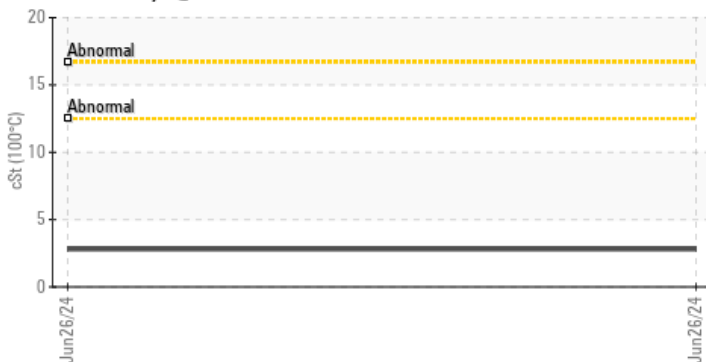
Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

