



CONSTRUCTION EQUIPMENT

20686 NEWPORT SAND VOLVO L250G 3013 - DIESEL ENGINE



Sample No: VCP422290
Oil Type: KENDALL SUPER-D 3 SAE 15W40
Job No: 20686 NEWPORT SAND



SAMPLE INFORMATION

Sample Number	VCP422290	---	---	---
Sample Date	27 Jul 2023	---	---	---
Machine Hours	15254	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---



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 brandon.grant@ascendummachinery.com
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OIL CONDITION

Visc @ 100°C	cSt	▲ 8.7	---	---	---
Base Number (BN)	mg KOH/g	▲ 3.0	---	---	---
Oxidation (PA)	%	71	---	---	---



CONTAMINATION

Soot %	%	■ 0.5	---	---	---
Nitration (PA)	%	64	---	---	---
Sulfation (PA)	%	67	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.3	---	---	---
Silicon	ppm	■ 19	---	---	---
Sodium	ppm	■ 6	---	---	---
Potassium	ppm	■ 3	---	---	---



WEAR METALS

Iron	ppm	▲ 193	---	---	---
Copper	ppm	■ 9	---	---	---
Lead	ppm	■ 13	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 7	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 5	---	---	---
Nickel	ppm	■ 4	---	---	---
Titanium	ppm	■ 30	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 1164	---	---	---
Magnesium	ppm	■ 219	---	---	---
Zinc	ppm	■ 710	---	---	---
Phosphorus	ppm	■ 647	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 16	---	---	---

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Cylinder, crank, or cam shaft wear is indicated. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN level is low. Confirm oil type.

Depot: VOLV00124
Unique No: 10578912
Signed: Jonathan Hester
Report Date: 02 Aug 2023

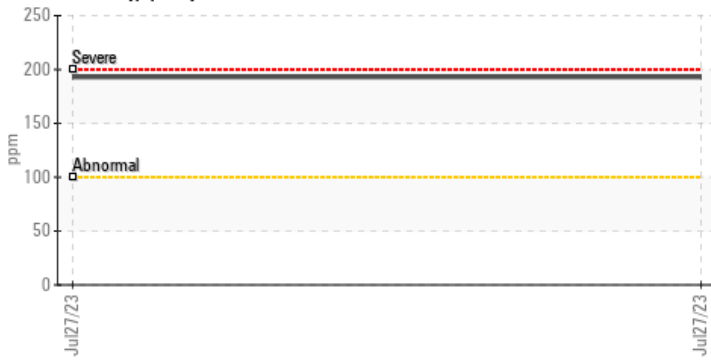


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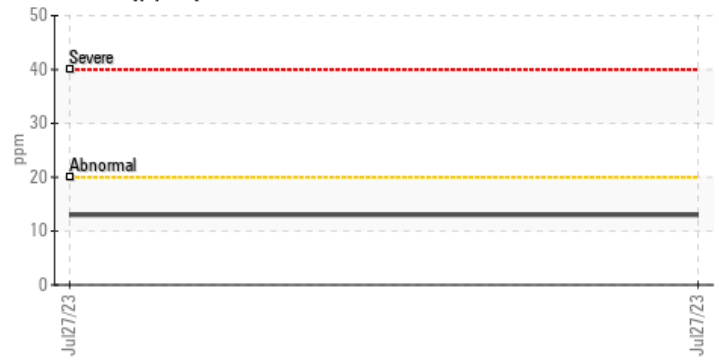


GRAPHS

▲ Iron (ppm)



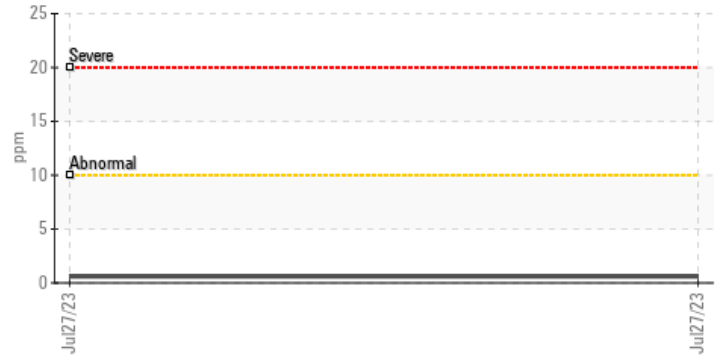
Lead (ppm)



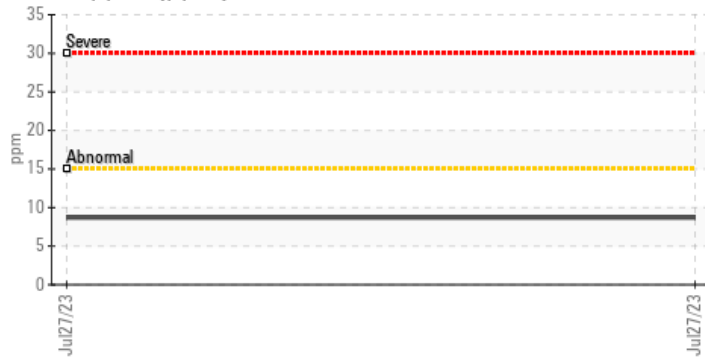
Aluminum (ppm)



Chromium (ppm)



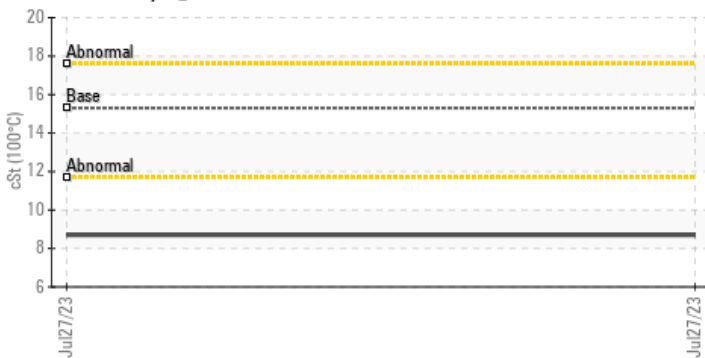
Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



▲ Base Number

