



CONSTRUCTION EQUIPMENT

647165 DETROIT IRON SENNEBOGEN 825 3520 - DIESEL ENGINE



Sample No: VCP452299
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 647165 DETROIT IRON



SAMPLE INFORMATION

Sample Number	VCP452299	---	---	---
Sample Date	04 Jan 2024	---	---	---
Machine Hours	1915	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

ALTA EQUIPMENT COMPANY - METRO WEST
56195 PONTIAC TRAIL
NEW HUDSON, MI
US 48165
Contact: PAUL CONZ
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T: (313)348-8861
F: (248)356-2029



OIL CONDITION

Visc @ 100°C	cSt	▲ 11.22	---	---	---
Base Number (BN)	mg KOH/g	■ 5.5	---	---	---
Oxidation (PA)	%	87	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.3	---	---	---
Nitration (PA)	%	90	---	---	---
Sulfation (PA)	%	65	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 1.3	---	---	---
Silicon	ppm	■ 6	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 2	---	---	---



WEAR METALS

Iron	ppm	■ 35	---	---	---
Copper	ppm	■ 13	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 45	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 1429	---	---	---
Magnesium	ppm	764	---	---	---
Zinc	ppm	■ 1259	---	---	---
Phosphorus	ppm	■ 971	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 23	---	---	---

Depot: VOLVO2990
Unique No: 10822400
Signed: Doug Bogart
Report Date: 29 Jan 2024

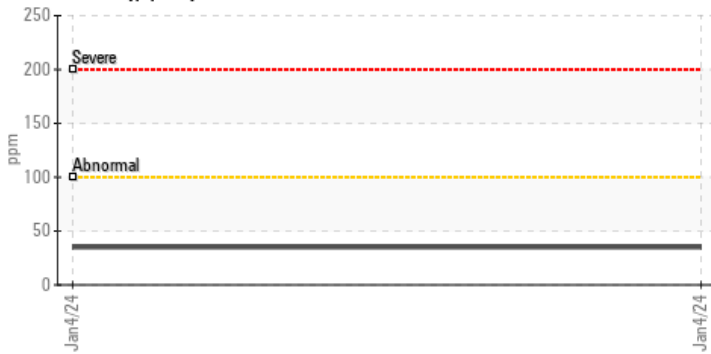


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GRAPHS

Iron (ppm)



Lead (ppm)



Aluminum (ppm)



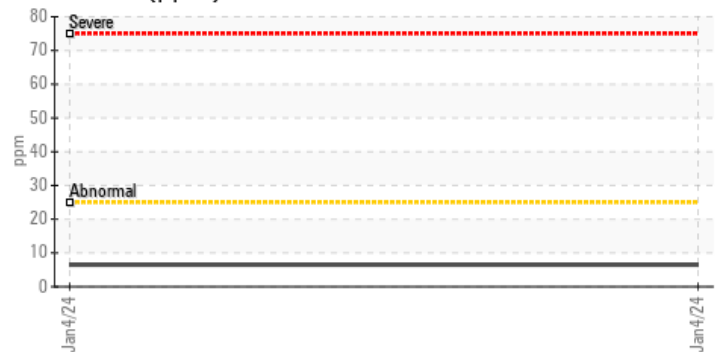
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

