



CONSTRUCTION EQUIPMENT

SPM606653 SENNEBOGEN 835 835.0.32 13 - DIESEL ENGINE



Sample No: VCP415027
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM606653



SAMPLE INFORMATION

Sample Number	VCP415027	---	---	---
Sample Date	12 Sep 2023	---	---	---
Machine Hours	543	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

SIMS METAL MANAGEMENT

2500 S. PAULINA
CHICAGO, IL
US 60608
Contact: RYAN WISE
ryan.wise@simsmm.com
T:
F:

OIL CONDITION

Visc @ 100°C	cSt	▲ 11.5	---	---	---
Base Number (BN)	mg KOH/g	■ 5.8	---	---	---
Oxidation (PA)	%	72	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Light fuel dilution occurring. 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 condition of the oil is suitable for further service.

CONTAMINATION

Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	88	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 2.3	---	---	---
Silicon	ppm	■ 19	---	---	---
Sodium	ppm	■ 6	---	---	---
Potassium	ppm	■ 85	---	---	---

WEAR METALS

Iron	ppm	■ 30	---	---	---
Copper	ppm	■ 12	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 26	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 77	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ 1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 6	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 2127	---	---	---
Magnesium	ppm	■ 276	---	---	---
Zinc	ppm	■ 1252	---	---	---
Phosphorus	ppm	■ 1002	---	---	---
Barium	ppm	■ 9	---	---	---
Boron	ppm	■ 35	---	---	---

Depot: SIMCHIL
Unique No: 10658035
Signed: Wes Davis
Report Date: 22 Sep 2023



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GRAPHS

