



CONSTRUCTION EQUIPMENT

SPM702306 SENNEBOGEN 835 835.0.3213 - DIESEL ENGINE



Sample No: VCP446156
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM702306



SAMPLE INFORMATION

Sample Number	VCP446156	VCP415027	---	---
Sample Date	16 Jun 2024	12 Sep 2023	---	---
Machine Hours	2305	543	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	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	█ 13.4	▲ 11.5	---	---
Base Number (BN)	mg KOH/g	█ 8.7	█ 5.8	---	---
Oxidation (PA)	%	116	72	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.2	---	---
Nitration (PA)	%	92	88	---	---
Sulfation (PA)	%	73	56	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	▲ 2.3	---	---
Silicon	ppm	█ 7	█ 19	---	---
Sodium	ppm	█ 2	█ 6	---	---
Potassium	ppm	█ <1	█ 85	---	---



WEAR METALS

Iron	ppm	█ 38	█ 30	---	---
Copper	ppm	█ 8	█ 12	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ 1	█ <1	---	---
Aluminum	ppm	█ 8	█ 26	---	---
Chromium	ppm	█ 1	█ 1	---	---
Molybdenum	ppm	█ 43	█ 77	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	█ 0	█ 1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ 6	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	█ 1638	█ 2127	---	---
Magnesium	ppm	█ 704	█ 276	---	---
Zinc	ppm	█ 1269	█ 1252	---	---
Phosphorus	ppm	█ 1128	█ 1002	---	---
Barium	ppm	█ 0	█ 9	---	---
Boron	ppm	█ 35	█ 35	---	---

Depot: SIMCHIL
Unique No: 11084083
Signed: Sean Felton
Report Date: 19 Jun 2024



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GRAPHS

