



CONSTRUCTION EQUIPMENT

SPM686828 SENNEBOGEN 835ME 835.0.2739 - DIESEL ENGINE



Sample No: VCP443516
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM686828



SAMPLE INFORMATION

Sample Number	VCP443516	VCP398748	VCP397505	VCP387959
Sample Date	15 Mar 2024	30 May 2023	03 Mar 2023	07 Dec 2022
Machine Hours	7000	5151	5150	4643
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

SIMS METAL MANAGEMENT

2500 S. PAULINA
CHICAGO, IL
US 60608

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.4	■ 13.5	■ 12.9	■ 13.2
Base Number (BN)	mg KOH/g	■ 8.2	■ 8.9	■ 9.0	■ 9.1
Oxidation (PA)	%	75	73	72	68

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. 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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.2	■ 0.2	■ 0.2	■ 0.2
Nitration (PA)	%	73	77	75	73
Sulfation (PA)	%	57	57	56	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 3.4	<1.0	<1.0	■ 1.6
Silicon	ppm	■ 10	■ 3	■ 2	■ 3
Sodium	ppm	■ 0	■ 3	■ 0	■ <1
Potassium	ppm	■ 6	■ <1	■ 4	■ 5

WEAR METALS

Iron	ppm	■ 9	■ 8	■ 7	■ 6
Copper	ppm	■ 2	■ <1	■ <1	■ <1
Lead	ppm	■ 3	■ 0	■ 0	■ 0
Tin	ppm	■ 2	■ <1	■ <1	■ <1
Aluminum	ppm	■ 6	■ 2	■ 3	■ 3
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 57	■ 60	■ 58	■ 59
Nickel	ppm	■ <1	■ 0	■ 0	■ 0
Titanium	ppm	■ <1	■ 0	■ 0	■ 0
Silver	ppm	■ <1	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	■ 1728	■ 1126	■ 1074	■ 1102
Magnesium	ppm	■ 472	■ 1016	■ 920	■ 939
Zinc	ppm	■ 1291	■ 1311	■ 1210	■ 1246
Phosphorus	ppm	■ 1125	■ 1014	■ 993	■ 972
Barium	ppm	■ 1	■ 0	■ 0	■ 0
Boron	ppm	■ 87	■ <1	■ 0	■ 0

Depot: SIMCHIIL
Unique No: 10940998
Signed: Wes Davis
Report Date: 26 Mar 2024



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GRAPHS

