



CONSTRUCTION EQUIPMENT

SPM580216 SENNEBOGEN 835ME 835.0.2733 - DIESEL ENGINE



Sample No: VCP423149
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM580216



SAMPLE INFORMATION

Sample Number	VCP423149	VCP422608	VCP358032	VCP357542
Sample Date	18 Jul 2023	24 Apr 2023	23 Aug 2022	05 May 2022
Machine Hours	6795	6276	4781	4189
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	MARGINAL	SEVERE	MARGINAL	SEVERE

SIMS METAL MANAGEMENT

2500 S. PAULINA
 CHICAGO, IL
 US 60608
 Contact: RYAN WISE
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	▲ 11.1	█ 13.0	▲ 9.7
Base Number (BN)	mg KOH/g	█ 8.5	█ 7.0	█ 9.9	█ 9.3
Oxidation (PA)	%	66	68	75	79

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

CONTAMINATION

Soot %	%	█ 0.1	█ 0.1	█ 0.2	█ 0.2
Nitration (PA)	%	69	69	88	95
Sulfation (PA)	%	55	51	61	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 3.8	● 8.5	▲ 3.8	● 19.3
Silicon	ppm	█ 2	█ 2	█ 3	█ 2
Sodium	ppm	█ 2	█ 0	█ <1	█ <1
Potassium	ppm	█ 1	█ <1	█ 15	█ 7

WEAR METALS

Iron	ppm	█ 5	█ 6	█ 8	█ 10
Copper	ppm	█ <1	█ 0	█ <1	█ <1
Lead	ppm	█ 0	█ 0	█ 0	█ 0
Tin	ppm	█ 0	█ 0	█ <1	█ <1
Aluminum	ppm	█ <1	█ 1	█ 6	█ 3
Chromium	ppm	█ 0	█ 0	█ <1	█ <1
Molybdenum	ppm	█ 61	█ 52	█ 62	█ 51
Nickel	ppm	█ 0	█ 0	█ 0	█ 0
Titanium	ppm	█ <1	█ 0	█ 0	█ 0
Silver	ppm	█ 0	█ 0	█ 0	█ 0
Manganese	ppm	█ <1	█ <1	█ <1	█ <1
Vanadium	ppm	█ <1	█ 0	█ 0	█ 0

ADDITIVES

Calcium	ppm	█ 1081	█ 934	█ 1036	█ 941
Magnesium	ppm	█ 1017	█ 899	█ 915	█ 849
Zinc	ppm	█ 1243	█ 1103	█ 1254	█ 1118
Phosphorus	ppm	█ 1005	█ 851	█ 1004	█ 877
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 2	█ 0	█ 2	█ 1

Depot: SIMCHIL
Unique No: 10573966
Signed: Wes Davis
Report Date: 27 Jul 2023



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GRAPHS

