



CONSTRUCTION EQUIPMENT

SPM477616 SENNEBOGEN 835ME 835.0.2200 - DIESEL ENGINE



Sample No: VCP389861
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM477616



SAMPLE INFORMATION

Sample Number	VCP389861	VCP372484	VCP351908	VCP318393
Sample Date	10 Nov 2022	13 Jun 2022	10 Mar 2022	26 Jul 2021
Machine Hours	15495	14983	14403	13388
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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 T:
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OIL CONDITION

Visc @ 100°C	cSt	15.9	14.9	13.6	14.1
Base Number (BN)	mg KOH/g	11.1	8.2	9.6	---
Oxidation (PA)	%	90	78	80	77

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. There is an abnormal amount of solids and carbon present 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

Soot %	%	▲ 3	2	1.3	0.9
Nitration (PA)	%	125	105	109	97
Sulfation (PA)	%	82	70	66	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	3	6
Sodium	ppm	4	3	1	4
Potassium	ppm	2	3	<1	3

WEAR METALS

Iron	ppm	33	31	30	23
Copper	ppm	<1	1	<1	<1
Lead	ppm	3	2	1	<1
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	4	4	3	1
Chromium	ppm	1	1	1	<1
Molybdenum	ppm	45	47	48	50
Nickel	ppm	<1	0	0	<1
Titanium	ppm	14	13	9	13
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	<1

ADDITIVES

Calcium	ppm	1614	1540	1427	1644
Magnesium	ppm	843	823	858	841
Zinc	ppm	1074	1073	963	1017
Phosphorus	ppm	815	839	874	898
Barium	ppm	0	0	0	0
Boron	ppm	60	62	49	59

Depot: SIMCHIL
Unique No: 10242527
Signed: Don Baldrige
Report Date: 06 Dec 2022



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GRAPHS

