



CONSTRUCTION EQUIPMENT

SPM593166 SENNEBOGEN 835M 835.0.2566 - FRONT RIGHT FINAL DRIVE



Sample No: VCP423204
Oil Type: GEAR OIL SAE 80W90
Job No: SPM593166



SAMPLE INFORMATION

Sample Number	VCP423204	VCP423144	VCP399815	VCP361335
Sample Date	05 Aug 2023	04 Aug 2023	21 Feb 2023	19 Apr 2022
Machine Hours	10070	10070	8939	6814
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	ABNORMAL

BELSON STEEL
1685 N STATE RTE 50
BOURBONNAIS, IL
US 60914
Contact: M. POZAN
mpozan@belsonsteel.com
T: (815)932-7416
F:

OIL CONDITION

Visc @ 40°C	cSt	181	188	162	191
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CONTAMINATION

Silicon	ppm	▲ 109	17	48	▲ 125
Sodium	ppm	■ 5	0	4	6
Potassium	ppm	■ 34	1	22	55

Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Bearing and/or gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	▲ 744	46	289	▲ 739
Copper	ppm	▲ 105	34	51	▲ 99
Lead	ppm	■ 3	<1	2	4
Tin	ppm	■ 0	0	0	<1
Aluminum	ppm	▲ 35	2	16	▲ 39
Chromium	ppm	▲ 9	<1	3	9
Molybdenum	ppm	■ 3	1	5	2
Nickel	ppm	■ 2	<1	<1	<1
Titanium	ppm	3	4	1	3
Silver	ppm	0	0	0	1
Manganese	ppm	■ 22	1	9	23
Vanadium	ppm	<1	0	<1	<1

ADDITIVES

Calcium	ppm	■ 2473	2527	1711	2666
Magnesium	ppm	■ 86	21	79	95
Zinc	ppm	■ 1055	1116	666	1023
Phosphorus	ppm	■ 1112	1004	1313	875
Barium	ppm	■ 4	1	2	0
Boron	ppm	■ 69	15	105	51

Depot: BELBOU
Unique No: 10602486
Signed: Sean Felton
Report Date: 14 Aug 2023



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GRAPHS

