



CONSTRUCTION EQUIPMENT

SPM593166 SENNEBOGAN 835ME 835.0.2566 - DIESEL ENGINE



Sample No: VCP409273
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM593166



SAMPLE INFORMATION

Sample Number	VCP409273	VCP407620	VCP399807	VCP379188
Sample Date	04 Aug 2023	15 May 2023	21 Feb 2023	25 Jul 2022
Machine Hours	10070	9529	8939	7543
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	MARGINAL	ABNORMAL	NORMAL

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 @ 100°C	cSt	13.7	13.5	▲ 11.2	13.6
Base Number (BN)	mg KOH/g	8.1	8.6	8.4	9.2
Oxidation (PA)	%	65	71	97	57

CONTAMINATION

Soot %	%	0.2	0.2	0.7	0.1
Nitration (PA)	%	69	73	105	46
Sulfation (PA)	%	54	57	66	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	▲ 2.7	▲ 6.6	<1.0
Silicon	ppm	4	2	7	4
Sodium	ppm	1	1	3	1
Potassium	ppm	4	1	<1	<1

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 suitable for further service.

WEAR METALS

Iron	ppm	8	6	15	2
Copper	ppm	4	<1	1	<1
Lead	ppm	<1	<1	0	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	4	<1	2	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	61	58	81	83
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1055	1048	1355	1424
Magnesium	ppm	979	909	394	411
Zinc	ppm	1308	1211	1100	1272
Phosphorus	ppm	1048	941	858	1064
Barium	ppm	0	0	0	0
Boron	ppm	1	11	249	478

Depot: BELBOU
Unique No: 10601885
Signed: Wes Davis
Report Date: 11 Aug 2023



CONSTRUCTION EQUIPMENT



GRAPHS

