



CONSTRUCTION EQUIPMENT

SPM566233 SENNEBOGEN 835ME 835.0.2859 - DIESEL ENGINE



Sample No: VCP423159
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM566233



SAMPLE INFORMATION

Sample Number	VCP423159	VCP404831	VCP390832	VCP379227
Sample Date	13 Jun 2023	06 Apr 2023	12 Oct 2022	16 Jun 2022
Machine Hours	4333	3781	2517	1647
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SIMS METAL MANAGEMENT

2500 S. PAULINA
 CHICAGO, IL
 US 60608
 Contact: RYAN WISE
 ryan.wise@simsmm.com
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	12.3	12.8	13.2	13.4
Base Number (BN)	mg KOH/g	8.6	7.9	8.0	8.0
Oxidation (PA)	%	89	69	88	78

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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.

CONTAMINATION

Soot %	%	0.2	0.2	0.3	0.2
Nitration (PA)	%	78	73	96	89
Sulfation (PA)	%	57	51	66	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.7	<1.0	<1.0	<1.0
Silicon	ppm	4	3	6	5
Sodium	ppm	<1	<1	0	2
Potassium	ppm	2	<1	20	14

WEAR METALS

Iron	ppm	9	11	25	13
Copper	ppm	1	1	2	1
Lead	ppm	0	0	<1	0
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	1	1	7	5
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	62	54	55	56
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	2	2
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1090	828	1095	1174
Magnesium	ppm	1012	808	909	887
Zinc	ppm	1348	986	1178	1178
Phosphorus	ppm	1052	858	929	924
Barium	ppm	0	0	0	0
Boron	ppm	0	<1	12	14

Depot: SIMCHIL
Unique No: 10548415
Signed: Wes Davis
Report Date: 11 Jul 2023

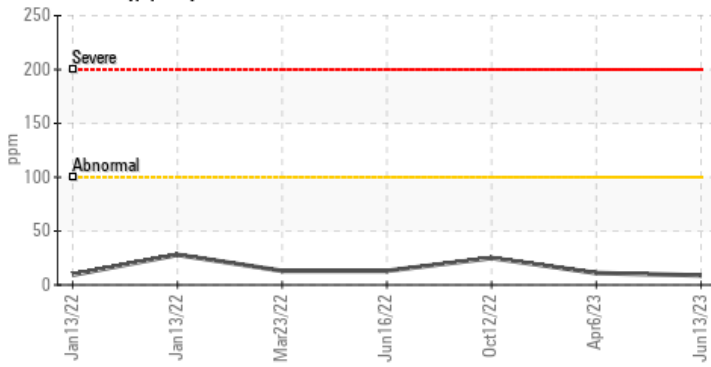


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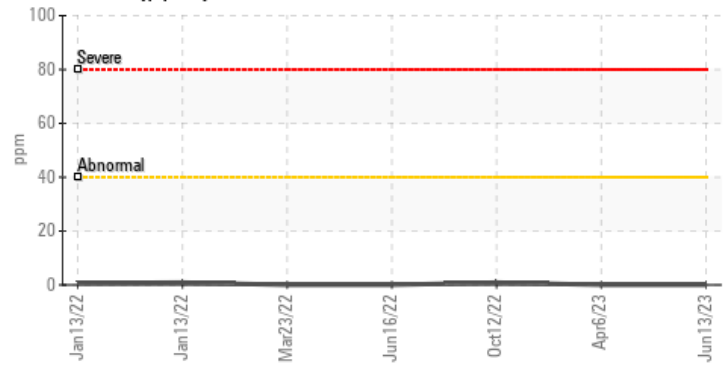


GRAPHS

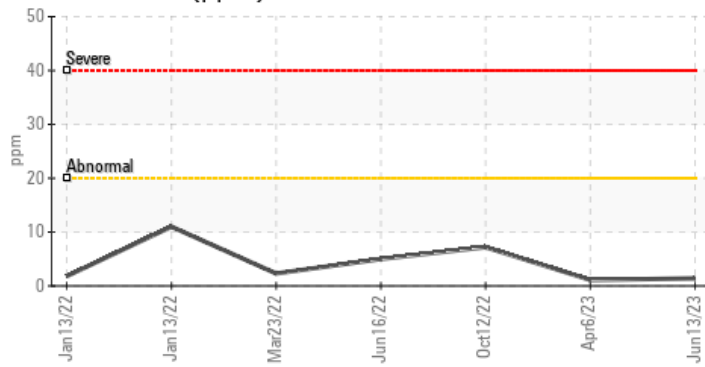
Iron (ppm)



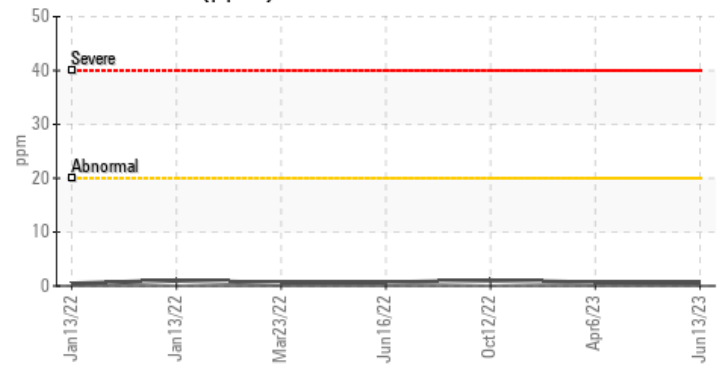
Lead (ppm)



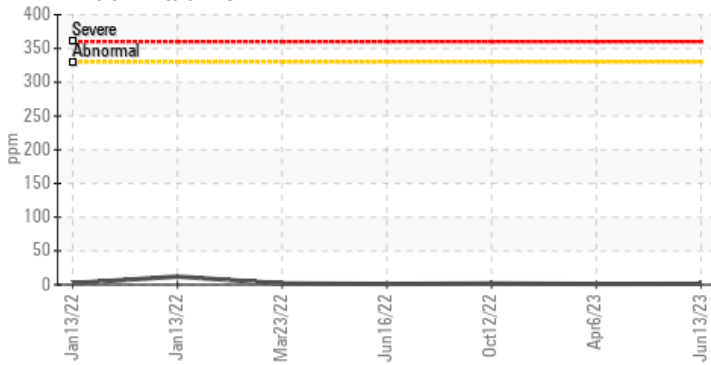
Aluminum (ppm)



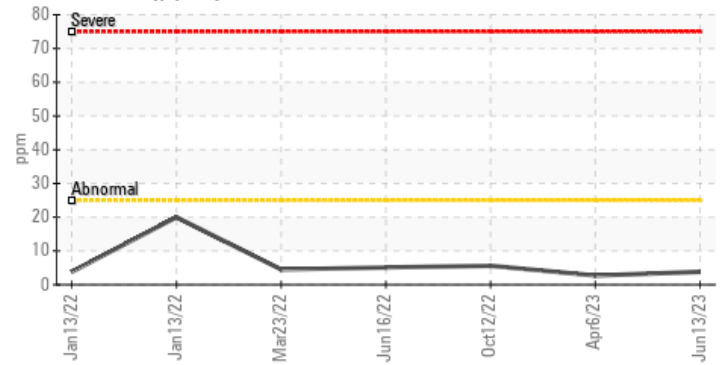
Chromium (ppm)



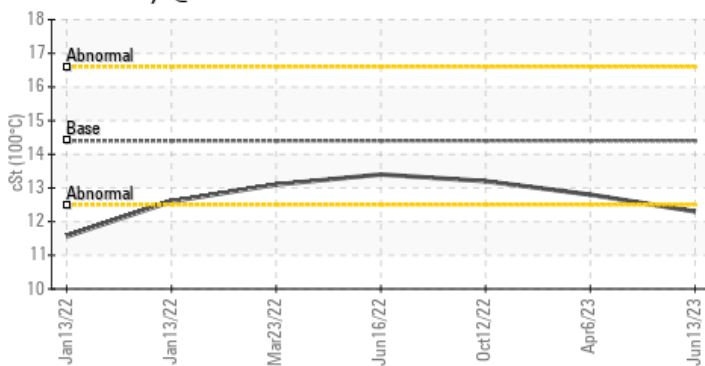
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

