



CONSTRUCTION EQUIPMENT

SPM702318 SENNEBOGEN 835ME 835.0.2859 - DIESEL ENGINE



Sample No: VCP446091
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM702318



SAMPLE INFORMATION

Sample Number	VCP446091	VCP415081	VCP423159	VCP404831
Sample Date	24 Apr 2024	28 Sep 2023	13 Jun 2023	06 Apr 2023
Machine Hours	6712	5054	4333	3781
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	12.5	13.3	12.3	12.8
Base Number (BN)	mg KOH/g	8.8	8.1	8.6	7.9
Oxidation (PA)	%	67	73	89	69

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.2	0.2
Nitration (PA)	%	68	78	78	73
Sulfation (PA)	%	55	57	57	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.7	<1.0
Silicon	ppm	3	5	4	3
Sodium	ppm	2	2	<1	<1
Potassium	ppm	0	9	2	<1



WEAR METALS

Iron	ppm	6	14	9	11
Copper	ppm	2	2	1	1
Lead	ppm	0	<1	0	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	<1	4	1	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	61	63	62	54
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1144	1101	1090	828
Magnesium	ppm	1003	1027	1012	808
Zinc	ppm	1252	1335	1348	986
Phosphorus	ppm	1038	1052	1052	858
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	<1

Depot: SIMCHIL
Unique No: 11029618
Signed: Wes Davis
Report Date: 14 May 2024

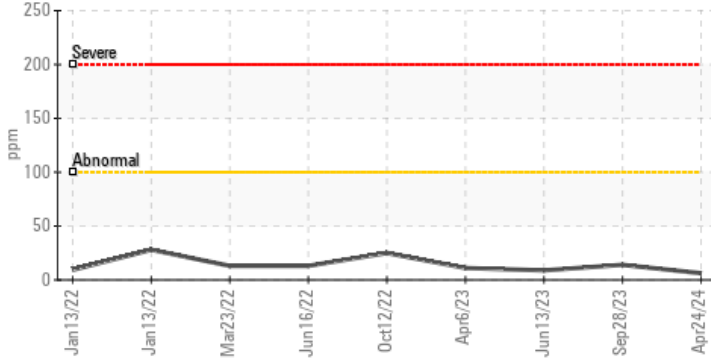


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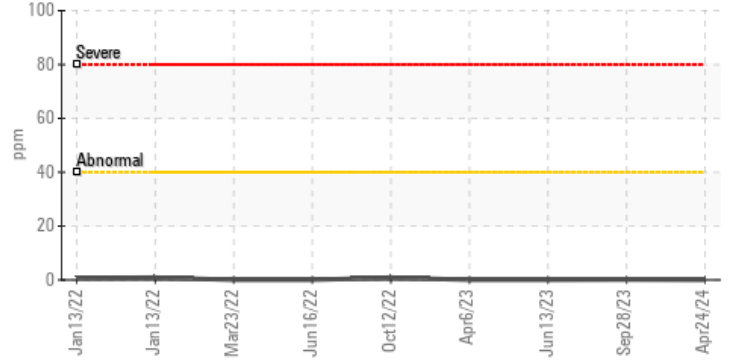


GRAPHS

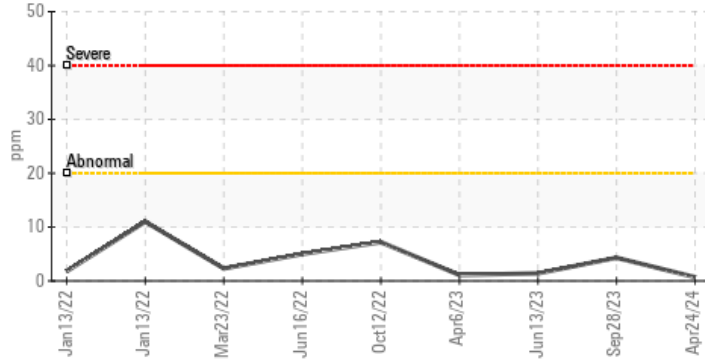
Iron (ppm)



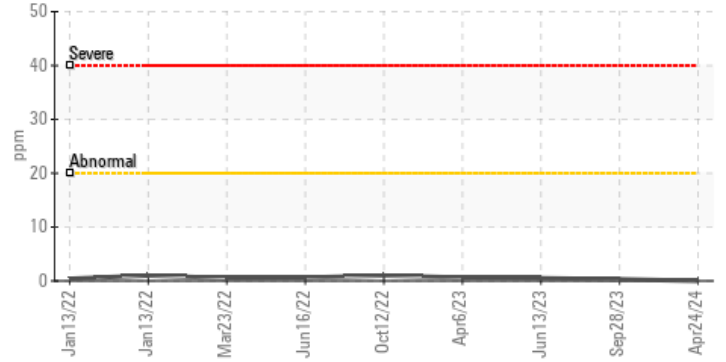
Lead (ppm)



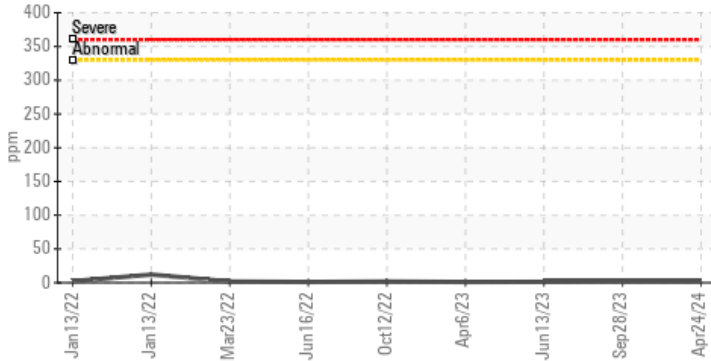
Aluminum (ppm)



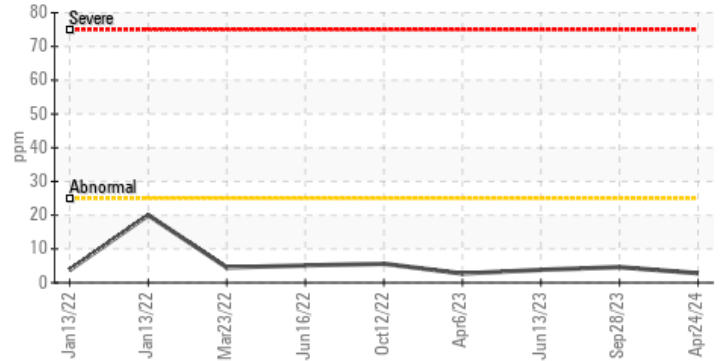
Chromium (ppm)



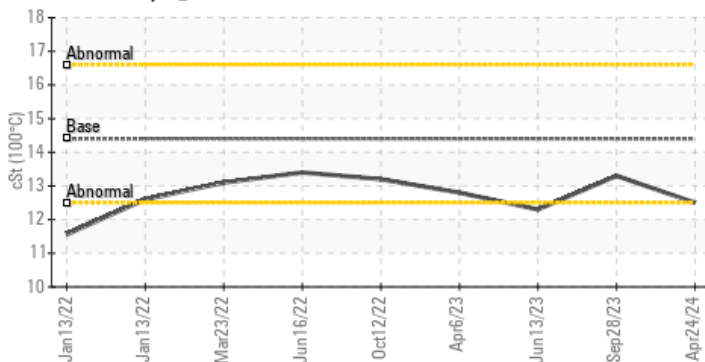
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

