



CONSTRUCTION EQUIPMENT

SPM580177 SENNEBOGEN 835ME 835.0.2350 - DIESEL ENGINE



Sample No: VCP420573
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM580177



SAMPLE INFORMATION

Sample Number	VCP420573	VCP404527	VCP379186	VCP358295
Sample Date	10 Jul 2023	23 Mar 2023	29 Jun 2022	05 May 2022
Machine Hours	14273	13021	11355	10849
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	ABNORMAL

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	12.6	12.3	13.6	12.1
Base Number (BN)	mg KOH/g	6.8	8.2	10.2	8.7
Oxidation (PA)	%	83	63	63	83

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

Soot %	%	0.3	0.3	0.2	0.6
Nitration (PA)	%	94	89	68	109
Sulfation (PA)	%	65	55	53	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	2.6	0.3	6.5
Silicon	ppm	4	4	4	6
Sodium	ppm	3	1	<1	<1
Potassium	ppm	1	0	0	3



WEAR METALS

Iron	ppm	19	14	8	30
Copper	ppm	<1	0	2	1
Lead	ppm	<1	0	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	1	<1	2	3
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	27	39	60	52
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1463	1182	1142	1147
Magnesium	ppm	970	833	996	965
Zinc	ppm	1113	1041	1254	1268
Phosphorus	ppm	918	845	1023	992
Barium	ppm	0	0	0	0
Boron	ppm	51	29	3	15

Depot: SIMCHIL
Unique No: 10573970
Signed: Wes Davis
Report Date: 27 Jul 2023

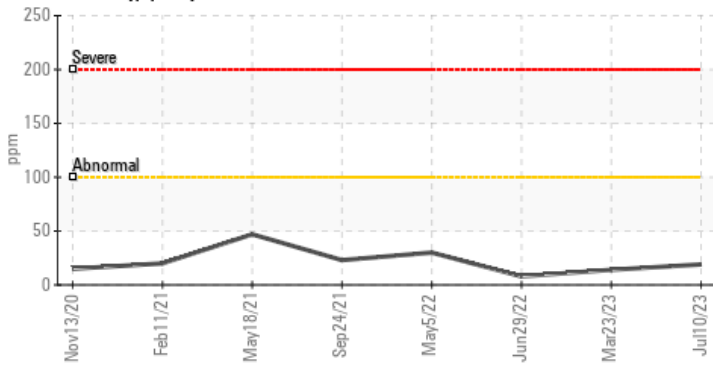


CONSTRUCTION EQUIPMENT

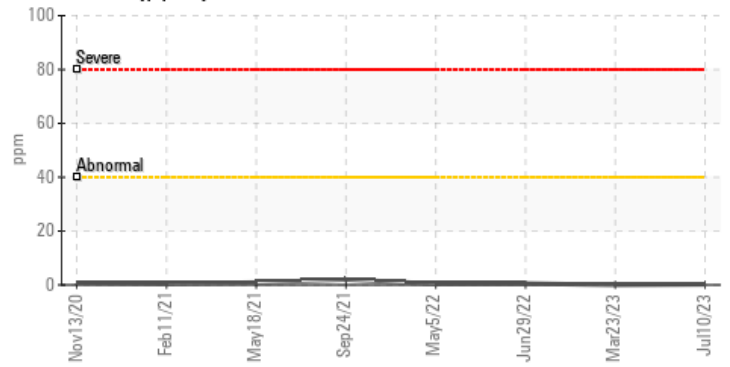


GRAPHS

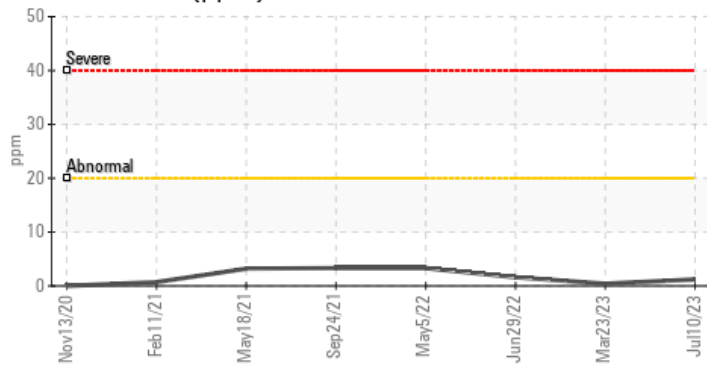
Iron (ppm)



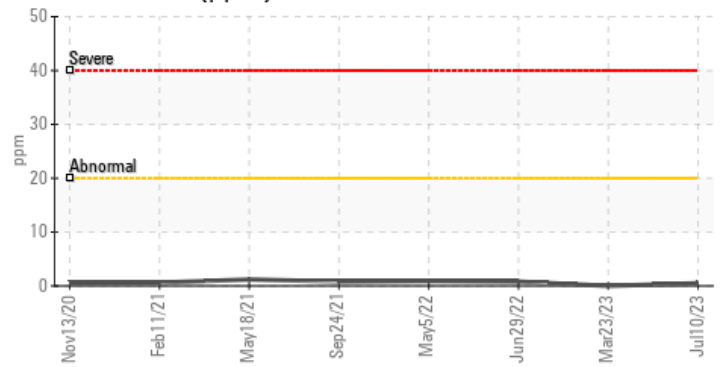
Lead (ppm)



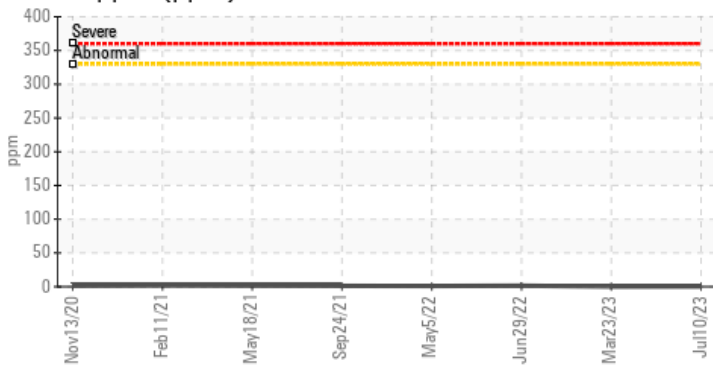
Aluminum (ppm)



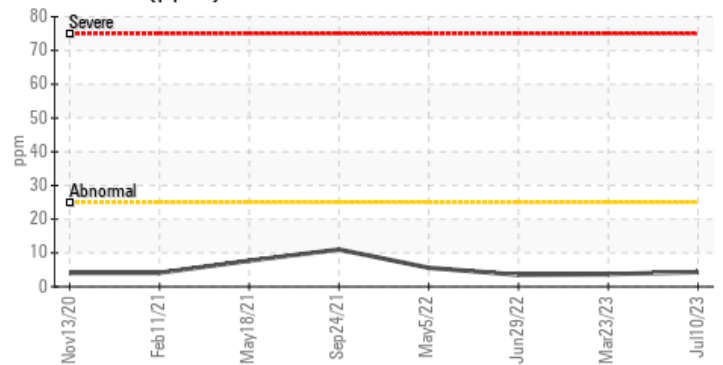
Chromium (ppm)



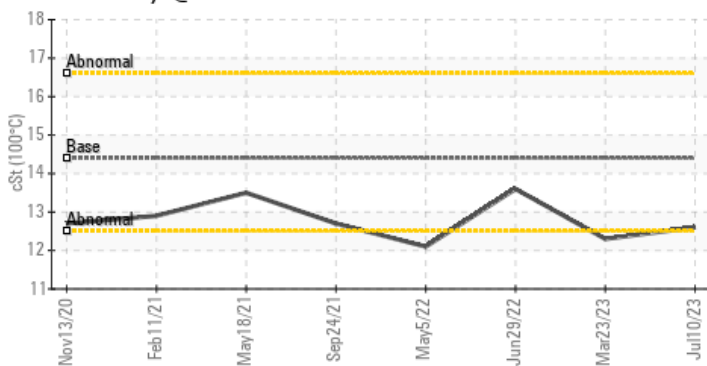
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

