



CONSTRUCTION EQUIPMENT

SPM702207 ALTER ROCK SENNEBOGEN 835 835.0.2740 - DIESEL ENGINE



Sample No: VCP433694
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM702207 ALTER ROCK



SAMPLE INFORMATION

Sample Number	VCP433694	VCP387339	VCP421621	VCP423490
Sample Date	25 Apr 2024	02 Feb 2024	03 Nov 2023	11 Aug 2023
Machine Hours	8101	7536	6952	6443
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

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F:

OIL CONDITION

Visc @ 100°C	cSt	▲ 10.9	▲ 11.7	■ 13.6	■ 13.5
Base Number (BN)	mg KOH/g	■ 8.4	■ 7.4	■ 8.9	■ 8.6
Oxidation (PA)	%	70	71	65	64

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.3	■ 0.3	■ 0.3	■ 0.3
Nitration (PA)	%	68	73	65	65
Sulfation (PA)	%	56	57	55	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 7.2	▲ 4.3	<1.0	<1.0
Silicon	ppm	■ 2	■ 2	■ 3	■ 3
Sodium	ppm	■ 1	■ <1	■ 0	■ 1
Potassium	ppm	■ 2	■ 0	■ 11	■ 7

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

WEAR METALS

Iron	ppm	■ 11	■ 9	■ 13	■ 10
Copper	ppm	■ <1	■ 0	■ 1	■ <1
Lead	ppm	■ <1	■ 0	■ 0	■ 0
Tin	ppm	■ <1	■ 0	■ 0	■ <1
Aluminum	ppm	■ 2	■ 2	■ 5	■ 4
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 55	■ 56	■ 63	■ 59
Nickel	ppm	■ 0	■ 0	■ <1	■ 0
Titanium	ppm	■ 0	■ 0	■ <1	■ <1
Silver	ppm	■ 0	■ 0	■ 0	■ <1
Manganese	ppm	■ <1	■ <1	■ 0	■ <1
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	■ 999	■ 1003	■ 1088	■ 1122
Magnesium	ppm	■ 899	■ 917	■ 967	■ 977
Zinc	ppm	■ 1083	■ 1109	■ 1251	■ 1241
Phosphorus	ppm	■ 916	■ 960	■ 988	■ 994
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ <1	■ 0	■ 0	■ <1

Depot: VOLVO8885
Unique No: 11016906
Signed: Wes Davis
Report Date: 09 May 2024

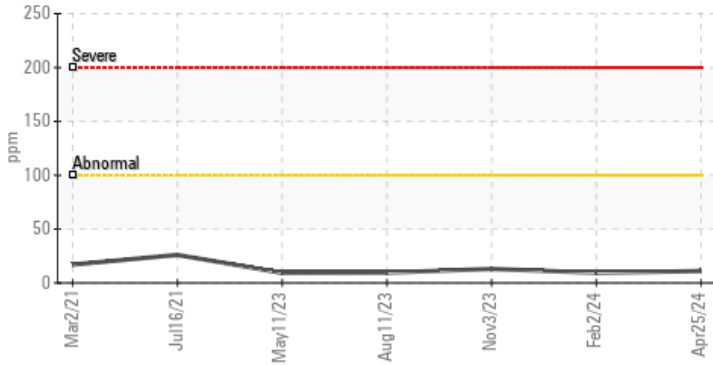


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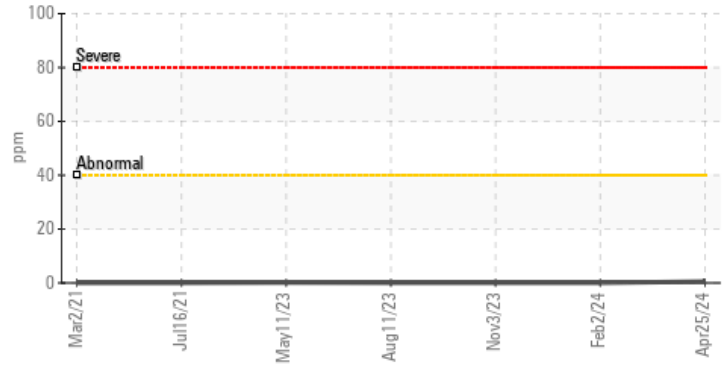


GRAPHS

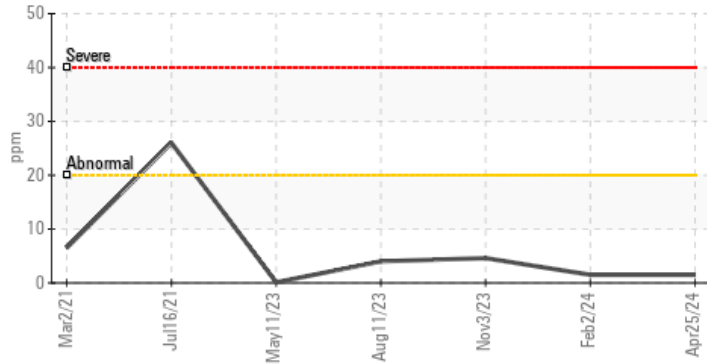
Iron (ppm)



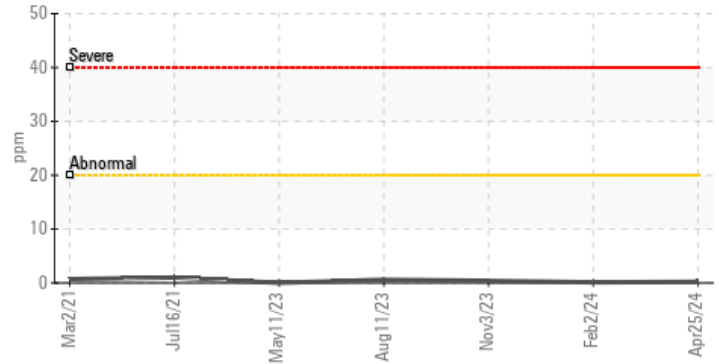
Lead (ppm)



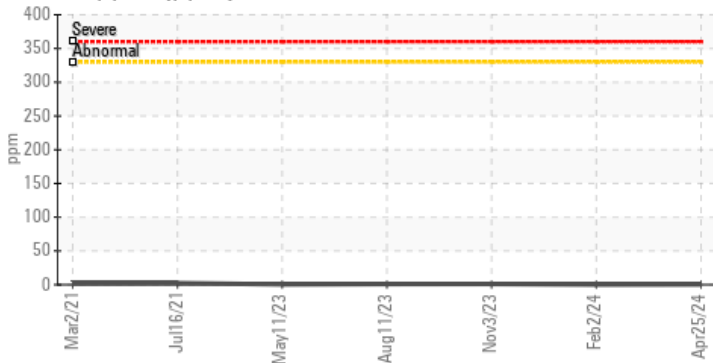
Aluminum (ppm)



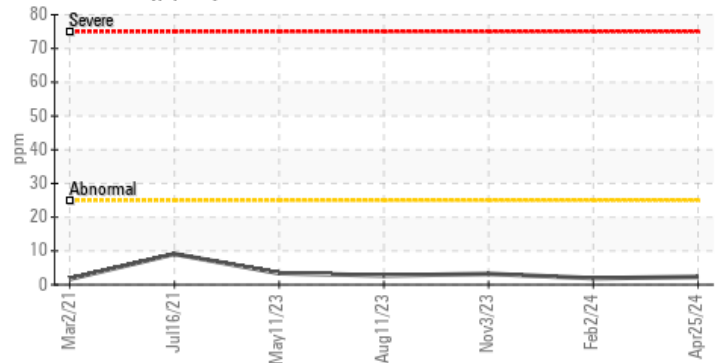
Chromium (ppm)



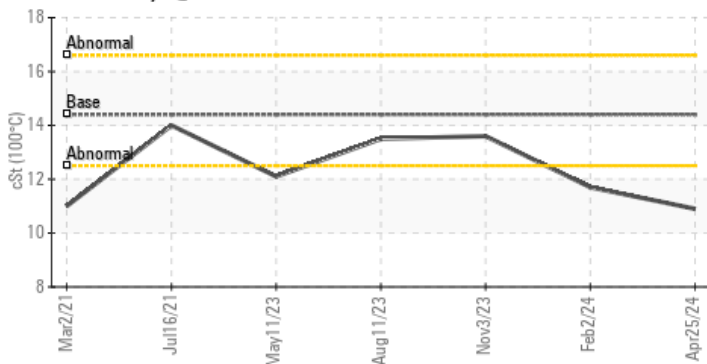
Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

