



CONSTRUCTION EQUIPMENT

SPM621711 BL DUKE SENNEBOGEN 835ME 835.0.2810 - DIESEL ENGINE



Sample No: VCP416878
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM621711 BL DUKE



SAMPLE INFORMATION

Sample Number	VCP416878	VCP410962	VCP387161	VCP365788
Sample Date	18 Oct 2023	09 Mar 2023	17 Feb 2023	19 Oct 2022
Machine Hours	6955	5516	5387	4582
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	MARGINAL	ABNORMAL	NORMAL

ALTA EQUIPMENT CO - ORLAND PARK
5000 INDUSTRIAL HWY
GARY, IN
US 46406
Contact: DAVE ENG
DAVE.ENG@ALTG.COM
T: (312)350-2560
F:

OIL CONDITION

Visc @ 100°C	cSt	12.5	13.5	▲ 11.9	12.8
Base Number (BN)	mg KOH/g	5.9	9.0	6.8	8.8
Oxidation (PA)	%	104	67	92	89

CONTAMINATION

Soot %	%	0.2	0.1	0.2	0.1
Nitration (PA)	%	83	52	92	78
Sulfation (PA)	%	65	54	63	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	▲ 3.4	▲ 6.7	<1.0
Silicon	ppm	2	3	2	3
Sodium	ppm	<1	<1	0	1
Potassium	ppm	6	<1	2	2

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 acceptable for the time in service.

WEAR METALS

Iron	ppm	7	1	9	5
Copper	ppm	1	<1	<1	1
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	3	0	2	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	55	54	54	61
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	<1	0	<1

ADDITIVES

Calcium	ppm	959	981	981	1046
Magnesium	ppm	846	867	782	914
Zinc	ppm	1112	1160	1037	1235
Phosphorus	ppm	859	904	828	997
Barium	ppm	7	0	0	2
Boron	ppm	0	0	0	<1

Depot: VOLVO8885
Unique No: 10737815
Signed: Don Baldrige
Report Date: 14 Nov 2023

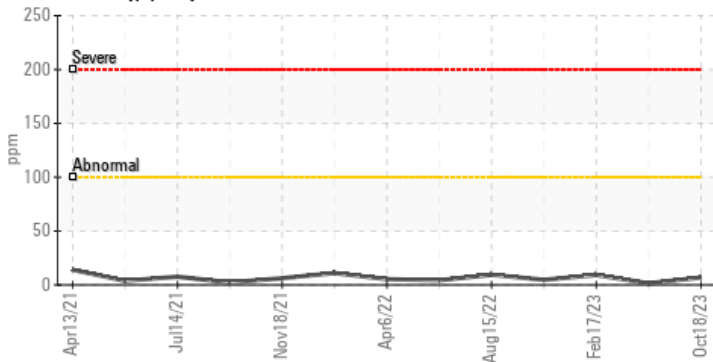


CONSTRUCTION EQUIPMENT

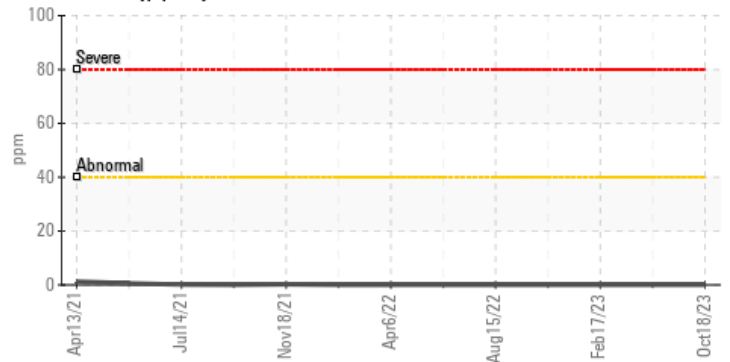


GRAPHS

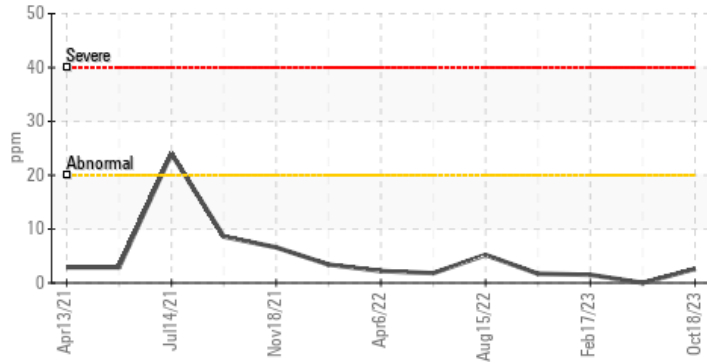
Iron (ppm)



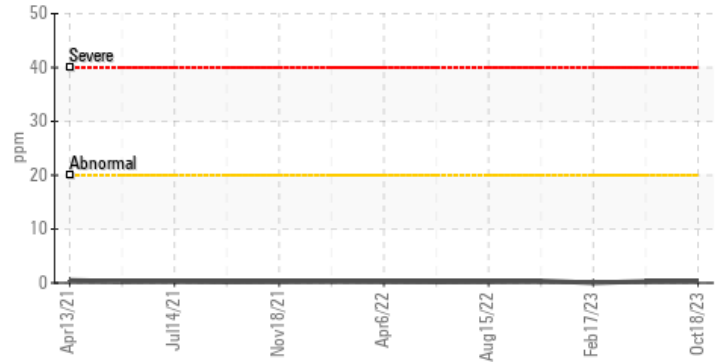
Lead (ppm)



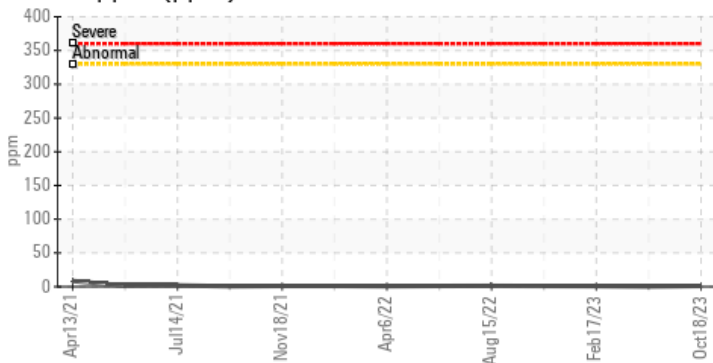
Aluminum (ppm)



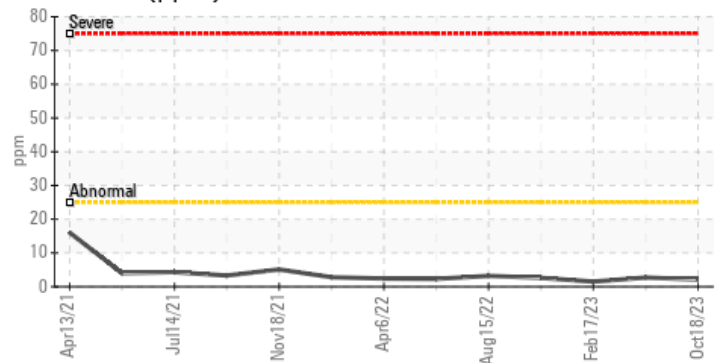
Chromium (ppm)



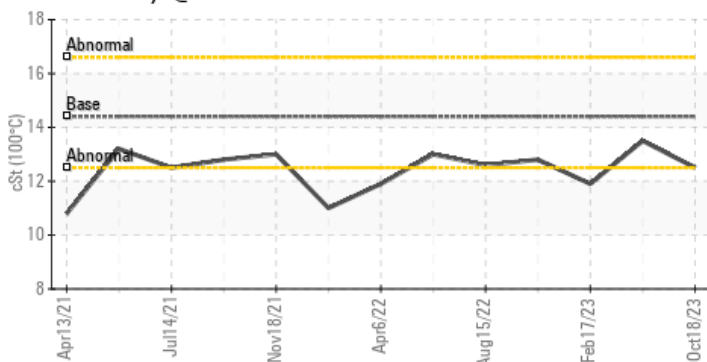
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

