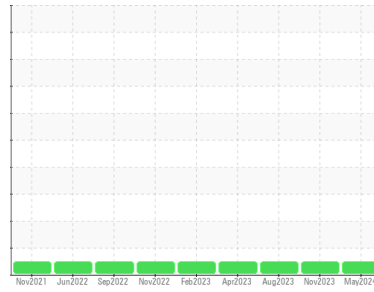


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**Cozzi MH1**  
 Machine Id  
**COZZI SENNEBOGAN 825 (S/N 825.0.2570)**  
 Component  
**Diesel Engine**  
 Fluid  
**CITGO 15W40 (--- GAL)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PCA0115570</b>	LW0007632	LW0007300
Sample Date	Client Info			<b>20 May 2024</b>	03 Nov 2023	08 Aug 2023
Machine Age	hrs	Client Info		<b>12750</b>	11548	10965
Oil Age	hrs	Client Info		<b>12750</b>	11548	10965
Oil Changed	Client Info			<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2		<b>NEG</b>	NEG	NEG
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>27</b>	25	23
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	4	2
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

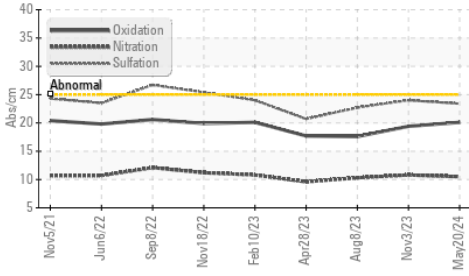
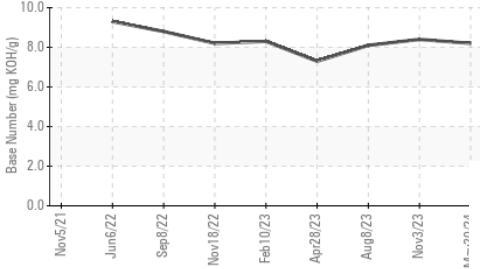
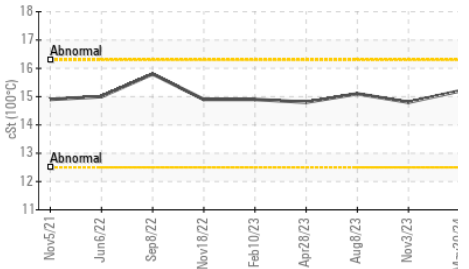
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>60</b>	36	45
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>67</b>	34	41
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>493</b>	815	703
Calcium	ppm	ASTM D5185m		<b>2260</b>	1610	1758
Phosphorus	ppm	ASTM D5185m		<b>1181</b>	1101	1098
Zinc	ppm	ASTM D5185m		<b>1454</b>	1441	1372
Sulfur	ppm	ASTM D5185m		<b>4052</b>	3532	4172

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>6</b>	5	4
Sodium	ppm	ASTM D5185m		<b>3</b>	5	5
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.9</b>	1	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.5</b>	10.8	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.4</b>	24.0	22.7

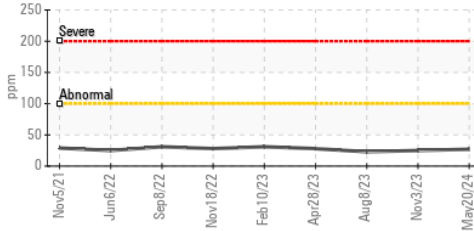
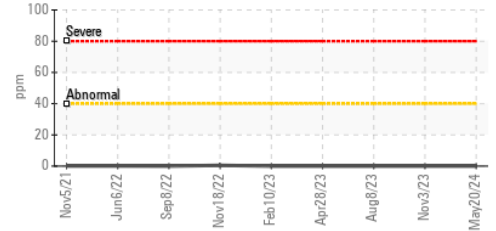
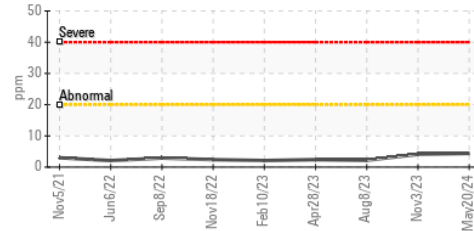
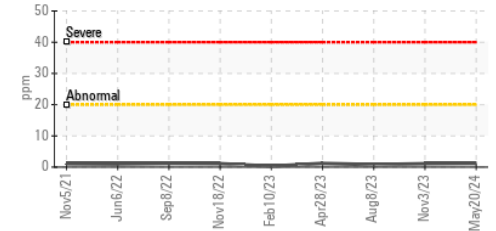
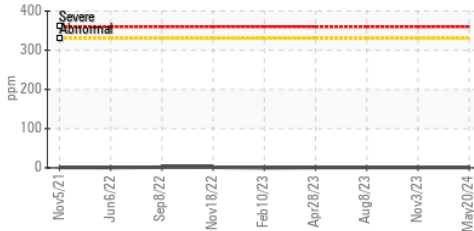
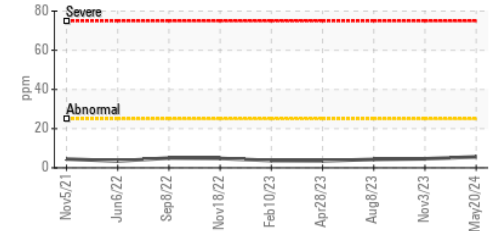
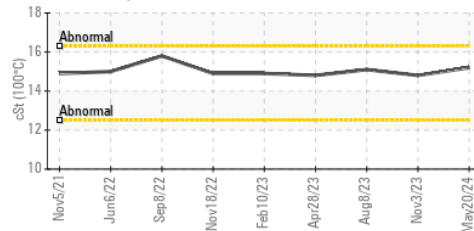
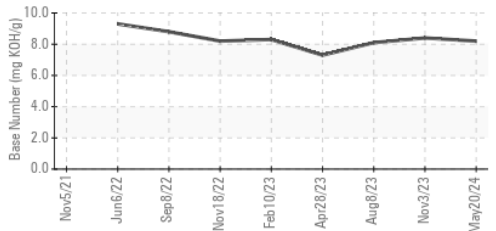
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.1</b>	19.4	17.6
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.2</b>	8.4	8.1

# OIL ANALYSIS REPORT

**FT-IR (Direct Trend)**

**Base Number**

**Viscosity @ 100°C**


PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.2	14.8	15.1

**GRAPHS**
**Iron (ppm)**

**Lead (ppm)**

**Aluminum (ppm)**

**Chromium (ppm)**

**Copper (ppm)**

**Silicon (ppm)**

**Viscosity @ 100°C**

**Base Number**


Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0115570      **Received** : 23 May 2024  
**Lab Number** : 06188806      **Tested** : 24 May 2024  
**Unique Number** : 11045558      **Diagnosed** : 24 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**CHICAGO MACHINERY INC**  
 3142 EAST LINCOLN  
 LYNWOOD, IL  
 US 60411-7728  
 Contact: Mike Korbelik  
 mike@chicagomachineryinc.com  
 T: (708)758-2060  
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)