



# OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area  
**Chester**  
 Machine Id  
**MACK 7005**  
 Component  
**Diesel Engine**  
 Fluid  
**NOT GIVEN (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

Valve wear is indicated. All other component wear rates are normal.

### Contamination

Fuel content negligible. 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 acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0744186</b>	---	---
Sample Date	Client Info		<b>11 Oct 2022</b>	---	---
Machine Age	mls Client Info		<b>46547</b>	---	---
Oil Age	mls Client Info		<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>100	<b>16</b>	---	---
Chromium	ppm ASTM D5185m	>20	<b>1</b>	---	---
Nickel	ppm ASTM D5185m	>4	<b>▲ 12</b>	---	---
Titanium	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm ASTM D5185m	>3	<b>&lt;1</b>	---	---
Aluminum	ppm ASTM D5185m	>20	<b>2</b>	---	---
Lead	ppm ASTM D5185m	>40	<b>&lt;1</b>	---	---
Copper	ppm ASTM D5185m	>330	<b>98</b>	---	---
Tin	ppm ASTM D5185m	>15	<b>1</b>	---	---
Vanadium	ppm ASTM D5185m		<b>0</b>	---	---
Cadmium	ppm ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m		<b>21</b>	---	---
Barium	ppm ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm ASTM D5185m		<b>66</b>	---	---
Manganese	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm ASTM D5185m		<b>895</b>	---	---
Calcium	ppm ASTM D5185m		<b>1169</b>	---	---
Phosphorus	ppm ASTM D5185m		<b>919</b>	---	---
Zinc	ppm ASTM D5185m		<b>1138</b>	---	---
Sulfur	ppm ASTM D5185m		<b>3102</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	<b>3</b>	---	---
Sodium	ppm ASTM D5185m		<b>7</b>	---	---
Potassium	ppm ASTM D5185m	>20	<b>&lt;1</b>	---	---
Fuel	% ASTM D3524	>5	<b>0.2</b>	---	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3	<b>0.6</b>	---	---
Nitration	Abs/cm *ASTM D7624	>20	<b>9.5</b>	---	---
Sulfation	Abs/.1mm *ASTM D7415	>30	<b>22.6</b>	---	---

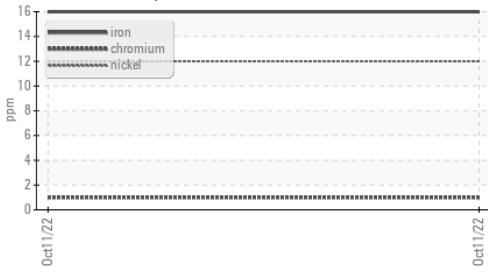
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	<b>17.9</b>	---	---
Base Number (BN)	mg KOH/g ASTM D2896		<b>8.6</b>	---	---



# OIL ANALYSIS REPORT

### ▲ Ferrous Alloys



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

### Fuel Dilution



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.0	---	---

### GRAPHS

### Base Number



### Iron (ppm)



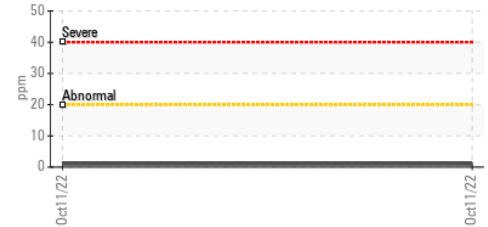
### Lead (ppm)



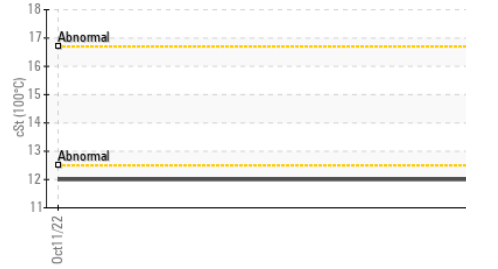
### Aluminum (ppm)



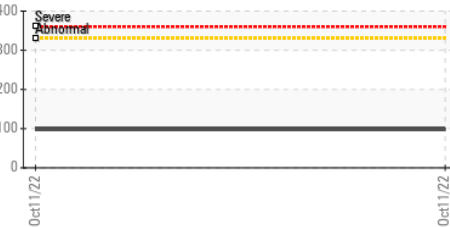
### Chromium (ppm)



### Viscosity @ 100°C



### Copper (ppm)



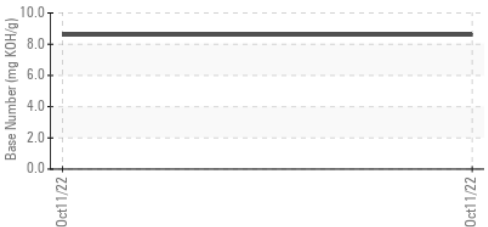
### Silicon (ppm)



### Viscosity @ 100°C



### Base Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0744186 **Received** : 24 Oct 2022  
**Lab Number** : 05674928 **Diagnosed** : 26 Oct 2022  
**Unique Number** : 10189499 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel, TBN )

**INTERSTATE WASTE-CHESTER**  
 89 BLACK MEADOW RD  
 CHESTER, NY  
 US 10918  
 Contact: CHUCK VLECK  
 CVLECK@interstatewaste.com  
 T: (845)290-3150  
 F: (845)572-3301

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)