

# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**MACK AN64T 247 (S/N LM015077)**  
 Component  
**Diesel Engine**  
 Fluid  
**{not provided} (--- 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

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>PCA0124973</b>	---	---
Sample Date	Client Info		<b>10 Jul 2024</b>	---	---
Machine Age	mls Client Info		<b>268624</b>	---	---
Oil Age	mls Client Info		<b>34798</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	---	---
Water	WC Method	>0.2	<b>NEG</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>120	<b>23</b>	---	---
Chromium	ppm ASTM D5185m	>20	<b>&lt;1</b>	---	---
Nickel	ppm ASTM D5185m	>5	<b>0</b>	---	---
Titanium	ppm ASTM D5185m	>2	<b>&lt;1</b>	---	---
Silver	ppm ASTM D5185m	>2	<b>0</b>	---	---
Aluminum	ppm ASTM D5185m	>20	<b>4</b>	---	---
Lead	ppm ASTM D5185m	>40	<b>0</b>	---	---
Copper	ppm ASTM D5185m	>330	<b>5</b>	---	---
Tin	ppm ASTM D5185m	>15	<b>&lt;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>3</b>	---	---
Barium	ppm ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm ASTM D5185m		<b>61</b>	---	---
Manganese	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm ASTM D5185m		<b>901</b>	---	---
Calcium	ppm ASTM D5185m		<b>1048</b>	---	---
Phosphorus	ppm ASTM D5185m		<b>985</b>	---	---
Zinc	ppm ASTM D5185m		<b>1208</b>	---	---
Sulfur	ppm ASTM D5185m		<b>2908</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	<b>6</b>	---	---
Sodium	ppm ASTM D5185m		<b>13</b>	---	---
Potassium	ppm ASTM D5185m	>20	<b>2</b>	---	---

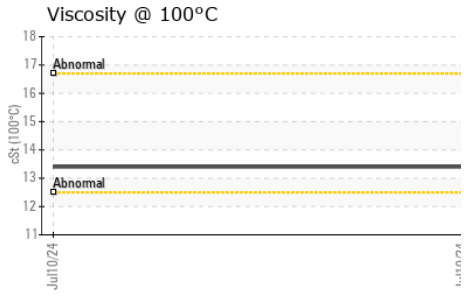
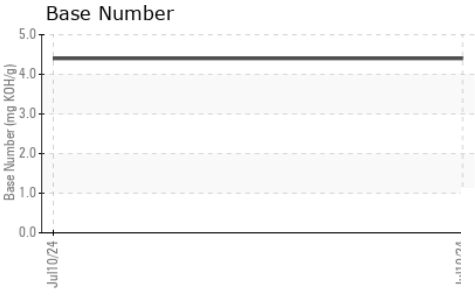
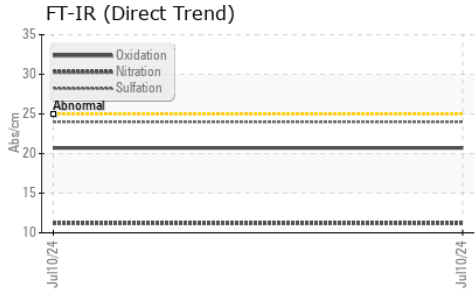
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>4	<b>0.7</b>	---	---
Nitration	Abs/cm *ASTM D7624	>20	<b>11.2</b>	---	---
Sulfation	Abs/.1mm *ASTM D7415	>30	<b>24.0</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	<b>20.7</b>	---	---
Base Number (BN)	mg KOH/g ASTM D2896		<b>4.4</b>	---	---

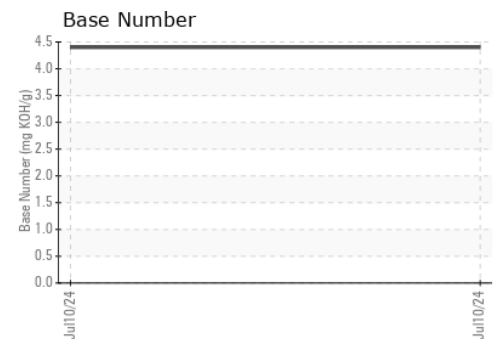
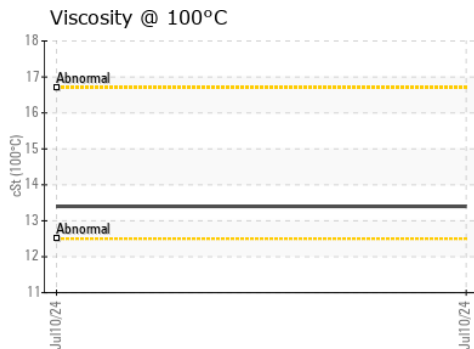
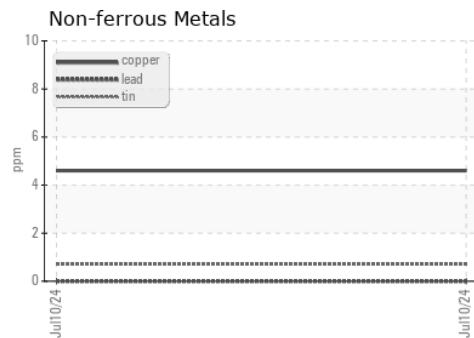
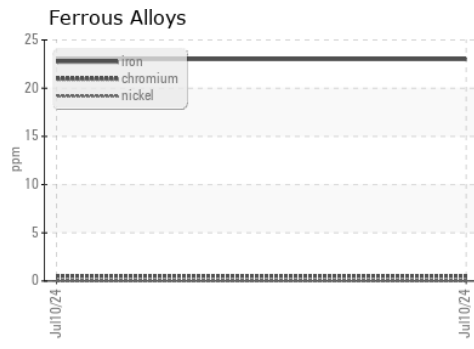
# OIL ANALYSIS REPORT



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	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.4	---	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0124973      **Received** : 17 Jul 2024  
**Lab Number** : 06239680      **Tested** : 18 Jul 2024  
**Unique Number** : 11128514      **Diagnosed** : 18 Jul 2024 - Wes Davis  
**Test Package** : FLEET

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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)