



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**MACK GR64F XT2511 (S/N 1M2GR4GC8LM016161)**  
Component  
**3 Axle**  
Fluid  
**DURALENE Fleet Gear Syn 75W90 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DC0031178</b>	DC0028949	---
Sample Date		Client Info		<b>12 Jan 2024</b>	28 Aug 2023	---
Machine Age	mls	Client Info		<b>133664</b>	105156	---
Oil Age	mls	Client Info		<b>25000</b>	0	---
Filter Age	mls	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>870	<b>123</b>	248	---
Chromium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	---
Titanium	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>9	<b>1</b>	2	---
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	9	---
Copper	ppm	ASTM D5185m	>60	<b>16</b>	33	---
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	3	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

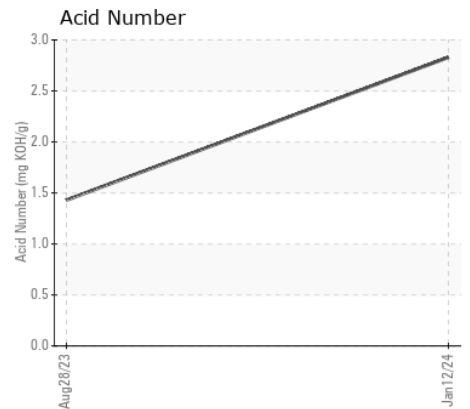
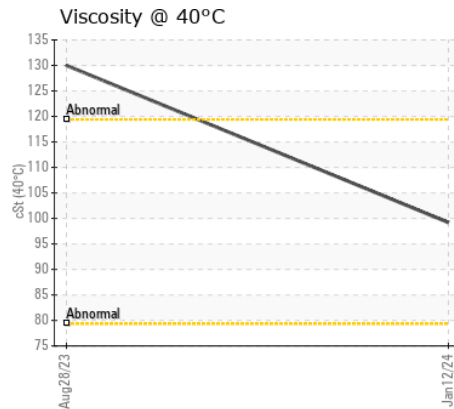
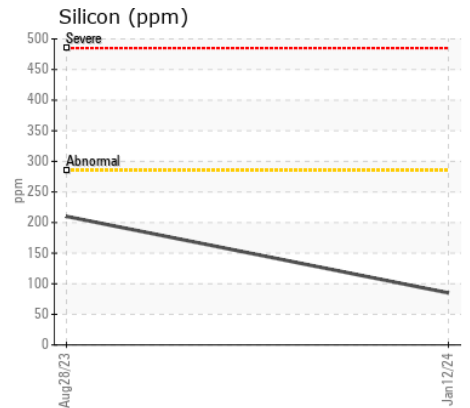
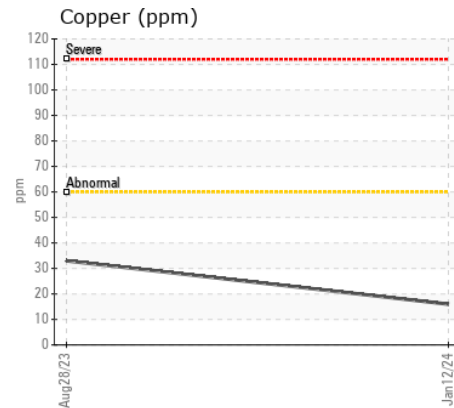
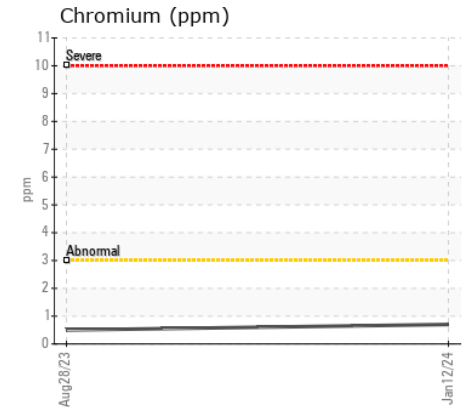
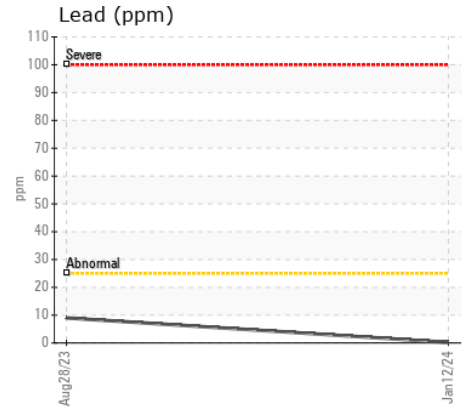
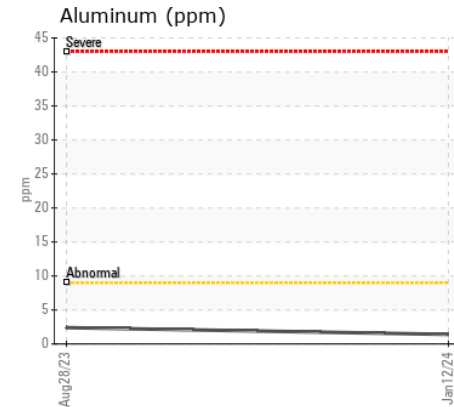
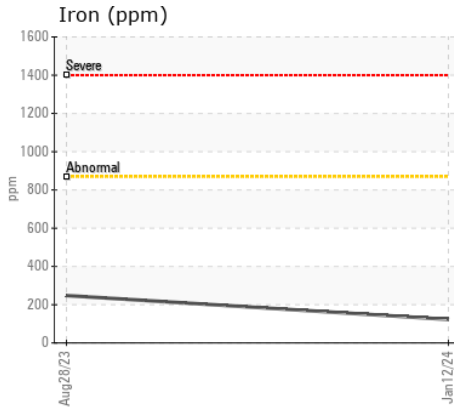
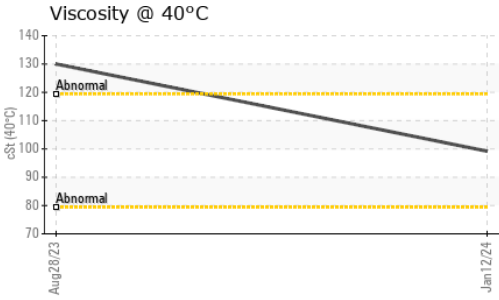
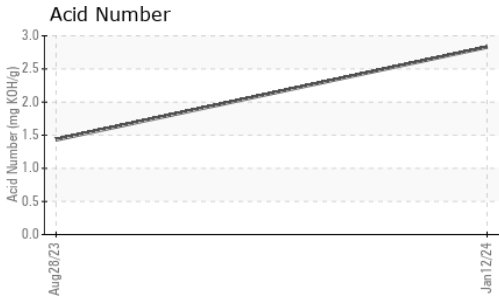
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>285	<b>85</b>	210	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	5	---
Boron	ppm	ASTM D5185m		<b>243</b>	160	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>14</b>	49	---
Magnesium	ppm	ASTM D5185m		<b>3</b>	0	---
Calcium	ppm	ASTM D5185m		<b>123</b>	49	---
Phosphorus	ppm	ASTM D5185m		<b>1747</b>	1075	---
Zinc	ppm	ASTM D5185m		<b>54</b>	20	---
Sulfur	ppm	ASTM D5185m		<b>22453</b>	23607	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>2.83</b>	1.43	---
Visc @ 40°C	cSt	ASTM D445		<b>99.2</b>	130	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0031178 **Received** : 16 Jan 2024  
**Lab Number** : \*06062137 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10833519 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

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)

**COMER CONSTRUCTION**  
 2100 SLADE LANE  
 FOREST HILL, MD  
 US 21050  
 Contact: DONALD FOX  
 dfox@comerconstruction.com  
 T: (443)269-1379  
 F: (410)638-0289