



# OIL ANALYSIS REPORT

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

Machine Id  
**MANTOLOKING EAST**  
 Component  
**Hydraulic System**  
 Fluid  
**MOBIL DTE 24 (325 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PH0003940</b>	PH0000264	---
Sample Date		Client Info		<b>11 Jun 2024</b>	23 May 2023	---
Machine Age	hrs	Client Info		<b>1100</b>	0	---
Oil Age	hrs	Client Info		<b>1100</b>	625	---
Filter Age	hrs	Client Info		<b>1100</b>	7	---
Oil Changed		Client Info		<b>Changed</b>	N/A	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>1</b>	<1	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	<1	---
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>20	<b>2</b>	1	---
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

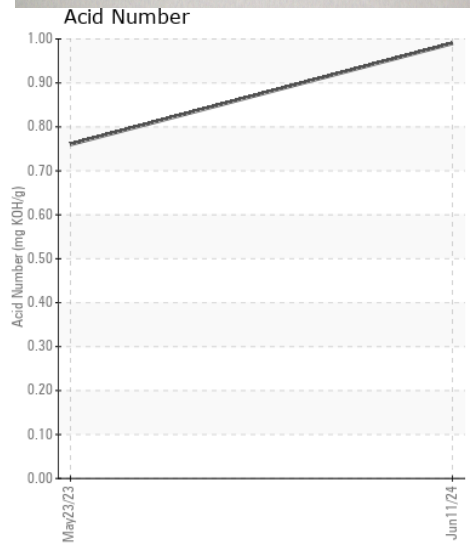
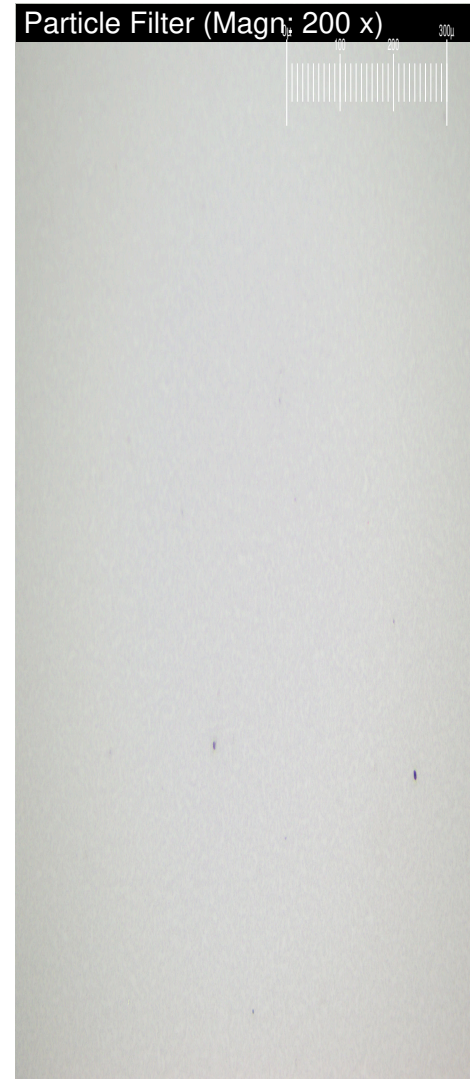
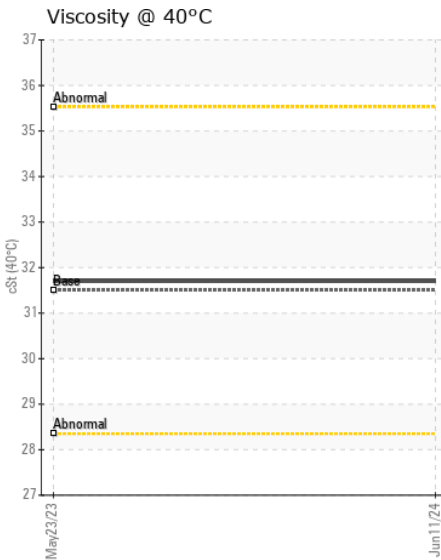
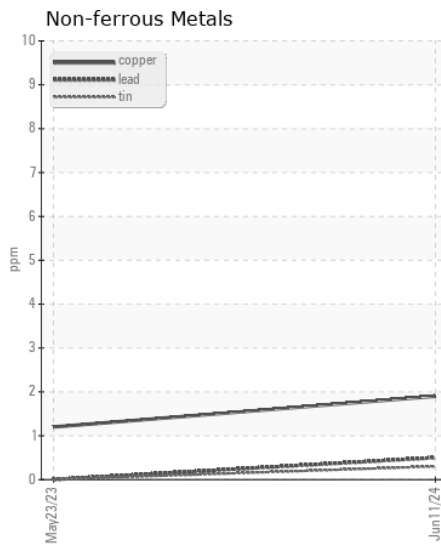
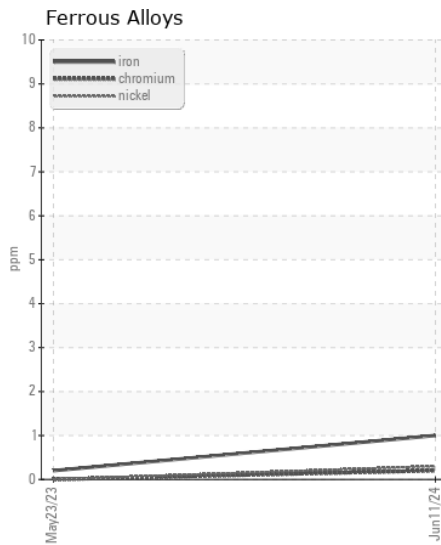
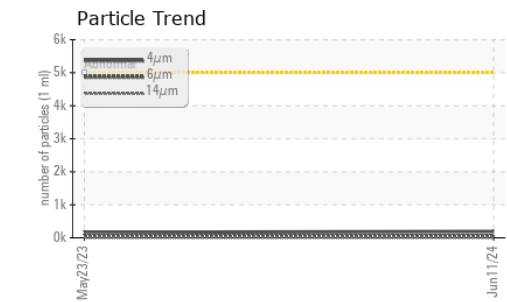
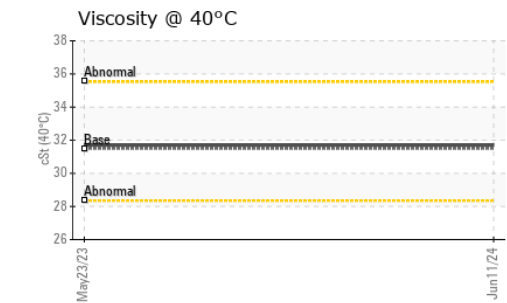
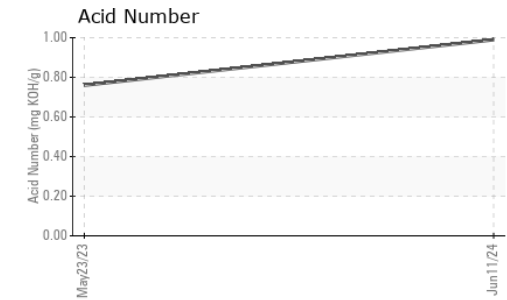
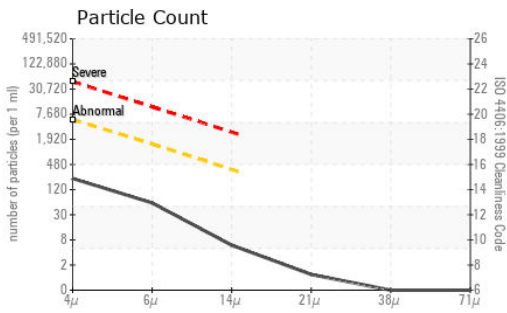
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>15	<b>1</b>	<1	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	---
Water		WC Method	>0.05	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>5000	<b>196</b>	167	---
Particles >6µm		ASTM D7647	>1300	<b>51</b>	46	---
Particles >14µm		ASTM D7647	>320	<b>5</b>	5	---
Particles >21µm		ASTM D7647	>80	<b>1</b>	1	---
Particles >38µm		ASTM D7647	>20	<b>0</b>	0	---
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/15	<b>15/13/10</b>	15/13/10	---
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	>0.05	<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>6</b>	7	---
Boron	ppm	ASTM D5185m		<b>0</b>	0	---
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>2</b>	<1	---
Calcium	ppm	ASTM D5185m		<b>124</b>	135	---
Phosphorus	ppm	ASTM D5185m		<b>447</b>	471	---
Zinc	ppm	ASTM D5185m		<b>728</b>	727	---
Sulfur	ppm	ASTM D5185m		<b>5908</b>	6821	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.99</b>	0.76	---
Visc @ 40°C	cSt	ASTM D445	31.5	<b>31.7</b>	31.7	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : PH0003940

Lab Number : 06213435

Unique Number : 11086299

Test Package : PLANT ( Additional Tests: PrtFilter )

Received : 18 Jun 2024

Tested : 21 Jun 2024

Diagnosed : 21 Jun 2024 - Jonathan Hester

ATLANTIC HYDRAULIC SYSTEMS

90 PRECISION DR

SHIRLEY, NY

US 11967

Contact: JOHN HERNANDEZ

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)

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F: