



OIL ANALYSIS REPORT

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

Machine Id  
**MATTEI 10014070-2020**

Component  
**Compressor**

Fluid  
**{not provided} (2 QTS)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

**WEAR**

Moderate concentration of visible metal present. All component wear rates are normal.

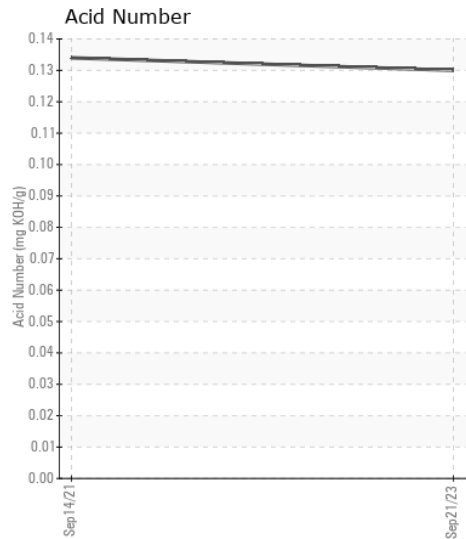
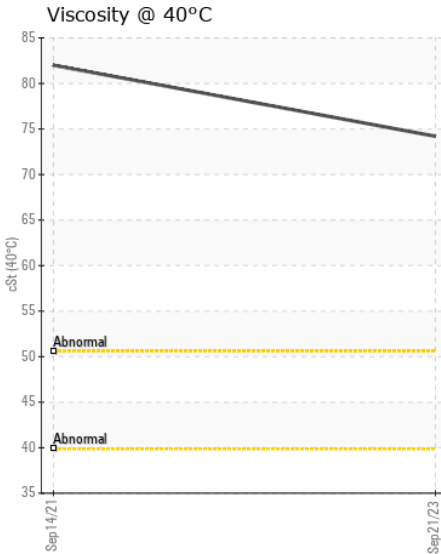
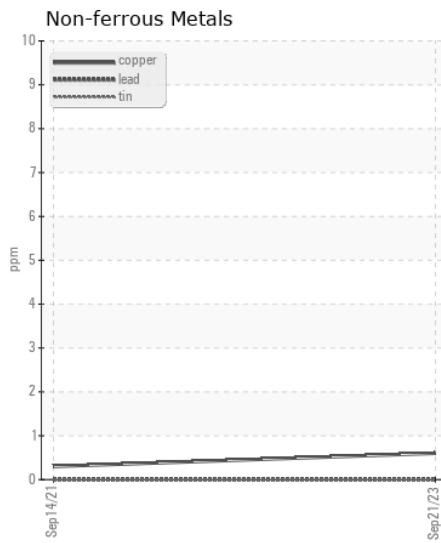
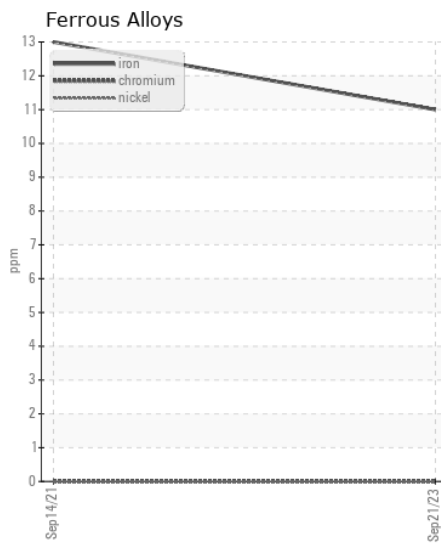
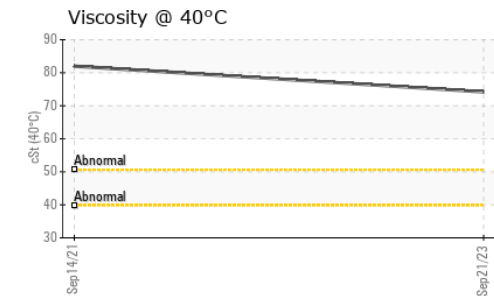
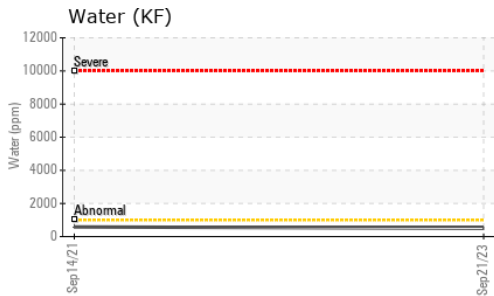
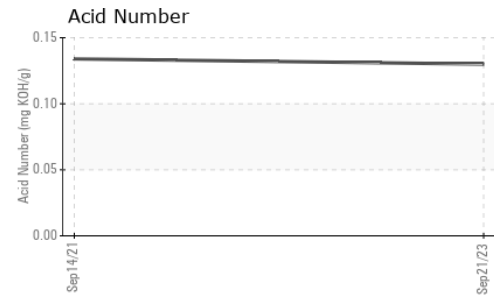
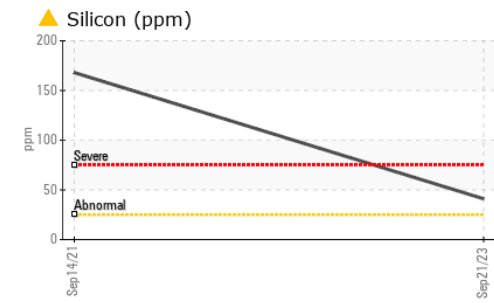
**CONTAMINATION**

Elemental level of silicon (Si) above normal.

**FLUID CONDITION**

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>AN37356</b>	AN23981	---
Sample Date		Client Info		<b>21 Sep 2023</b>	14 Sep 2021	---
Machine Age	hrs	Client Info		<b>1843</b>	186	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	SEVERE	---
Iron	ppm	ASTM D5185m	>50	<b>11</b>	13	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m		<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	1	---
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>▲ MODER</b>	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silicon	ppm	ASTM D5185m	>25	<b>▲ 41</b>	168	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	---
Water	%	ASTM D6304	>0.1	<b>0.049</b>	0.058	---
ppm Water	ppm	ASTM D6304	>1000	<b>499.6</b>	583.4	---
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	>0.1	<b>NEG</b>	NEG	---
Sodium	ppm	ASTM D5185m		<b>28</b>	7	---
Boron	ppm	ASTM D5185m		<b>0</b>	0	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Calcium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Phosphorus	ppm	ASTM D5185m		<b>891</b>	900	---
Zinc	ppm	ASTM D5185m		<b>57</b>	44	---
Sulfur	ppm	ASTM D5185m		<b>139</b>	202	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.13</b>	0.134	---
Visc @ 40°C	cSt	ASTM D445		<b>74.2</b>	82.0	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : AN37356  
**Lab Number** : 05959152  
**Unique Number** : 10660365  
**Test Package** : IND 2  
**Received** : 22 Sep 2023  
**Tested** : 26 Sep 2023  
**Diagnosed** : 26 Sep 2023 - Jonathan Hester

**MATTEI COMPRESSORS--OEM**  
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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)