



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
MATTEI 10002967-2018
 Component
Compressor
 Fluid
ROTOROIL 8000F2 (2 QTS)

RECOMMENDATION

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		AN37651	AN35544	---
Sample Date		Client Info		03 May 2024	01 Oct 2019	---
Machine Age	hrs	Client Info		4162	313	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	SEVERE	---

WEAR

The iron level is severe.

Iron	ppm	ASTM D5185m	>50	▲ 166	11	---
Chromium	ppm	ASTM D5185m	>10	0	<1	---
Nickel	ppm	ASTM D5185m		0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	6	2	---
Lead	ppm	ASTM D5185m	>25	0	1	---
Copper	ppm	ASTM D5185m	>50	<1	<1	---
Tin	ppm	ASTM D5185m	>15	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

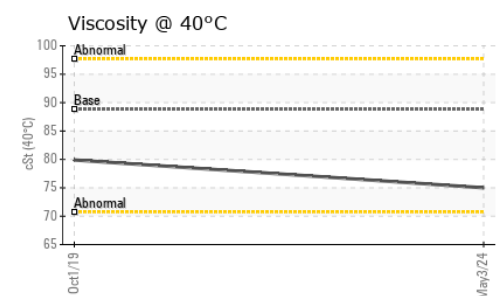
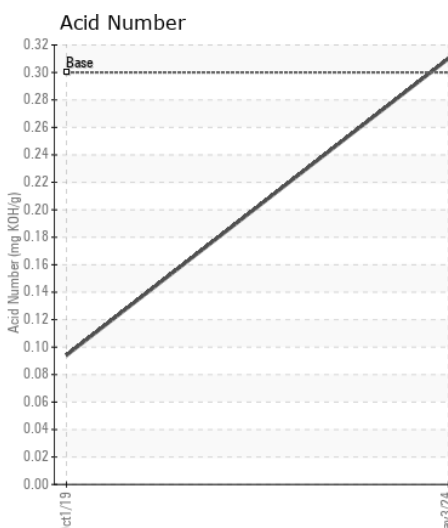
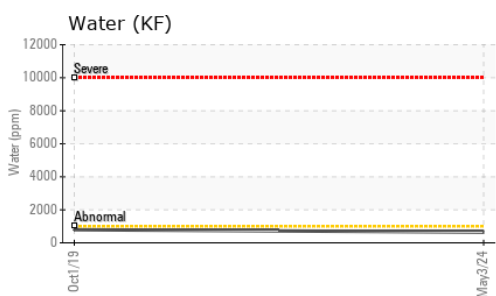
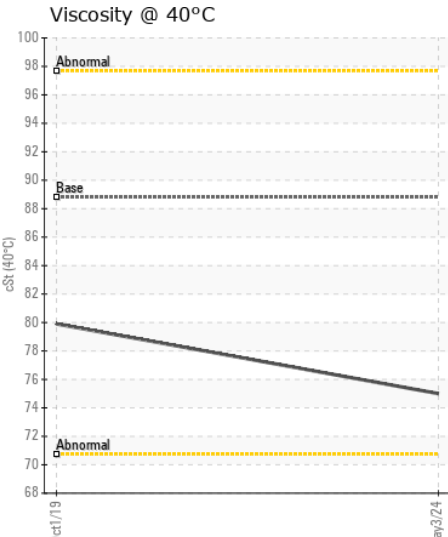
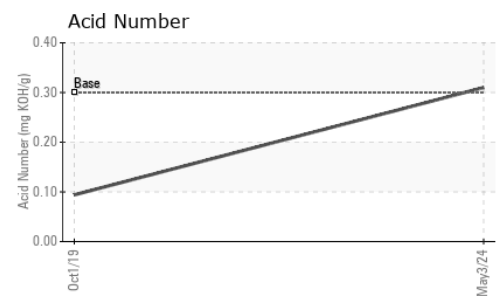
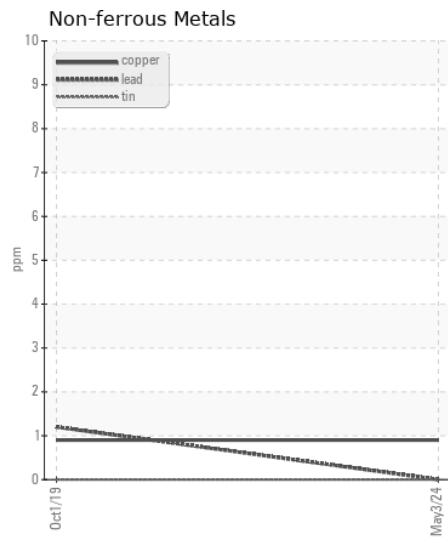
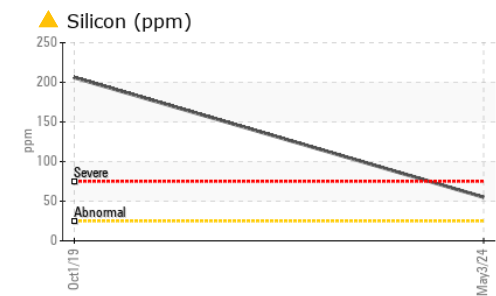
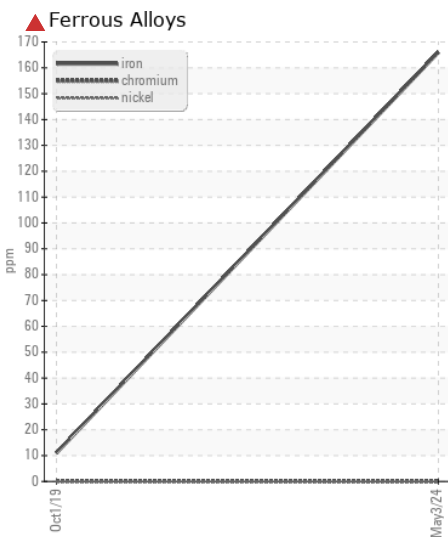
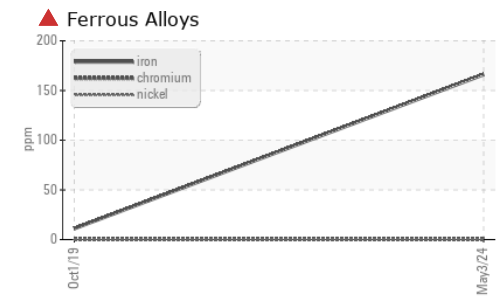
Elemental level of silicon (Si) above normal. The water content is negligible.

Silicon	ppm	ASTM D5185m	>25	▲ 55	▲ 206	---
Potassium	ppm	ASTM D5185m	>20	0	0	---
Water	%	ASTM D6304	>0.1	0.064	0.079	---
ppm Water	ppm	ASTM D6304	>1000	647	795.4	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	VLITE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		44	5	---
Boron	ppm	ASTM D5185m		0	<1	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		0	<1	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		<1	3	---
Calcium	ppm	ASTM D5185m		<1	0	---
Phosphorus	ppm	ASTM D5185m		975	1264	---
Zinc	ppm	ASTM D5185m		54	5	---
Sulfur	ppm	ASTM D5185m		113	20	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.3	0.31	0.094	---
Visc @ 40°C	cSt	ASTM D445	88.8	75.0	79.9	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : AN37651
Lab Number : 06213551
Unique Number : 11086415
Test Package : IND 2

Received : 18 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 21 Jun 2024 - Jonathan Hester

MATTEI COMPRESSORS--OEM
 9635 LIBERTY ROAD, SUITE E
 RANDALLSTOWN, MD
 US 21133

Contact: MARTY WARD
 jward@matteicomp.com

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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