



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	SEVERE

Machine Id
MATTEI 093920-2020

Component
Compressor

Fluid
ROTOROIL 8000 (--- GAL)

RECOMMENDATION

We advise that you check for a possible overheat condition. Recommend drain oil if not already done and flush with cleaner before refilling with oil. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

The iron level is abnormal.

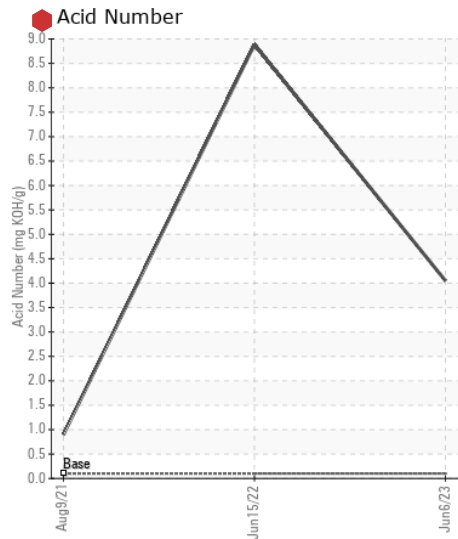
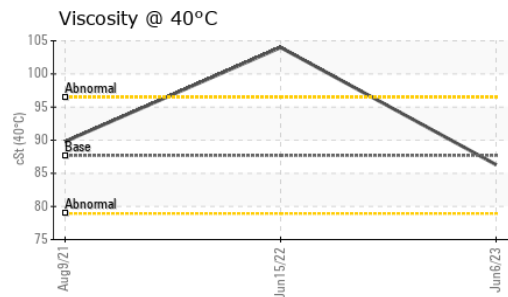
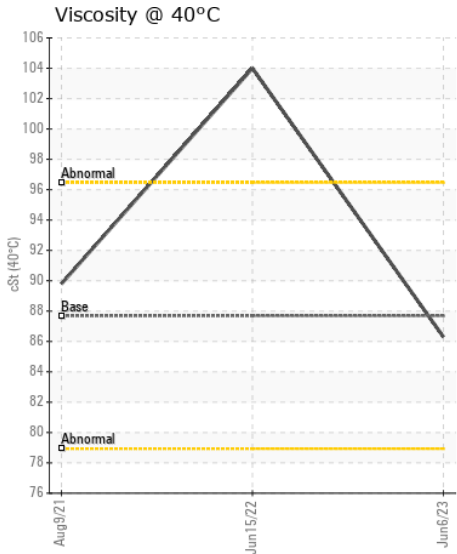
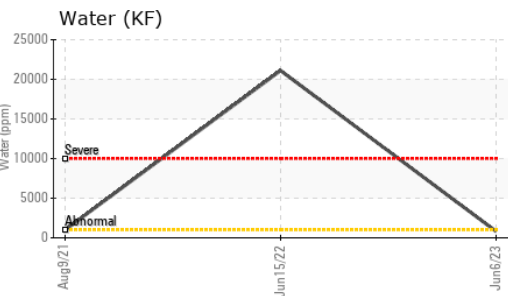
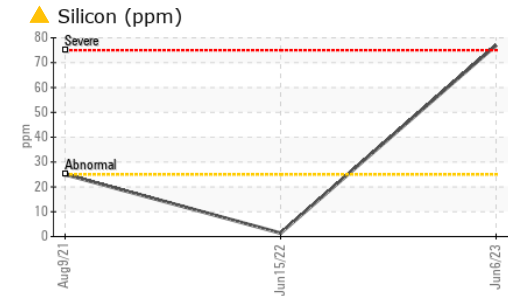
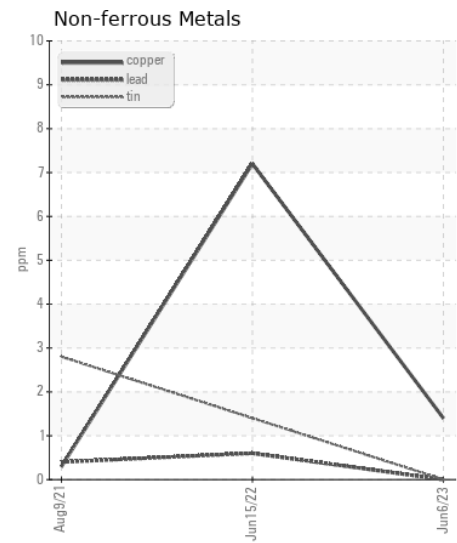
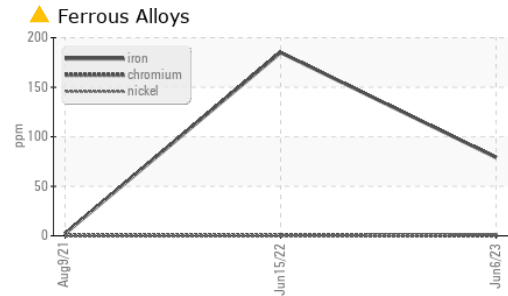
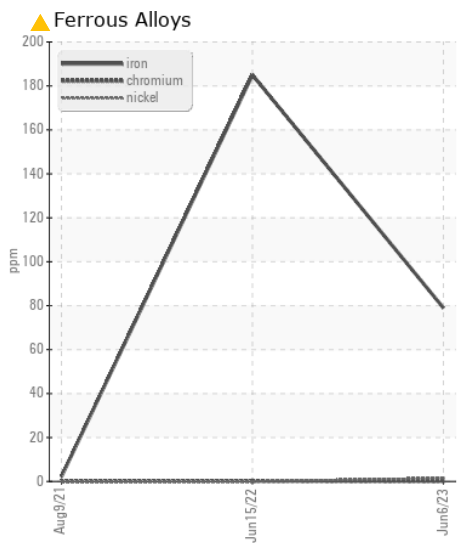
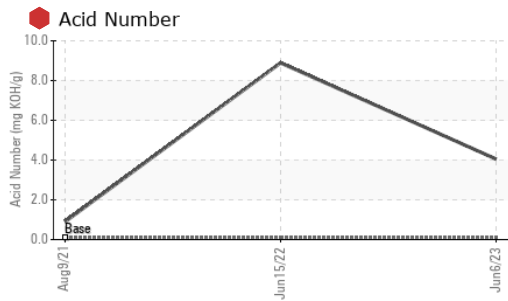
CONTAMINATION

Elemental level of silicon (Si) above normal.

FLUID CONDITION

The AN level is above the recommended limit. TAN level indicates possible presence of varnish.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		AN38971	AN35434	AN36333
Sample Date		Client Info		06 Jun 2023	15 Jun 2022	09 Aug 2021
Machine Age	hrs	Client Info		0	11708	6534
Oil Age	hrs	Client Info		0	6530	5178
Filter Age	hrs	Client Info		0	6530	5178
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	NORMAL
Iron	ppm	ASTM D5185m	>50	▲ 79	● 185	2
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m		2	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	2	5	<1
Lead	ppm	ASTM D5185m	>25	0	<1	<1
Copper	ppm	ASTM D5185m	>50	1	7	<1
Tin	ppm	ASTM D5185m	>15	0	1	3
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	▲ 77	1	25
Potassium	ppm	ASTM D5185m	>20	0	0	10
Water	%	ASTM D6304	>0.1	0.081	● 2.11	0.099
ppm Water	ppm	ASTM D6304	>1000	819.3	● 21100	991.0
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	● 0.2%	NEG
Sodium	ppm	ASTM D5185m		42	4	<1
Boron	ppm	ASTM D5185m		0	10	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	2	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	5	0
Phosphorus	ppm	ASTM D5185m	884	892	513	573
Zinc	ppm	ASTM D5185m		52	50	20
Sulfur	ppm	ASTM D5185m		279	45	80
Acid Number (AN)	mg KOH/g	ASTM D8045	0.1	● 4.05	● 8.889	0.899
Visc @ 40°C	cSt	ASTM D445	87.69	86.3	104	89.8



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : AN38971 **Received** : 23 Jun 2023
Lab Number : 05882702 **Diagnosed** : 28 Jun 2023
Unique Number : 10533185 **Diagnostician** : Angela Borella
Test Package : IND 2

MATTEI COMPRESSORS--OEM
 9635 LIBERTY ROAD, SUITE E
 RANDALLSTOWN, MD
 US 21133
 Contact: MARTY WARD
 jward@matteicomp.com
 T: (410)521-7020
 F: (410)521-7024

Certificate L2367
 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)