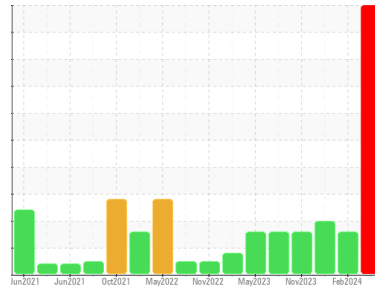




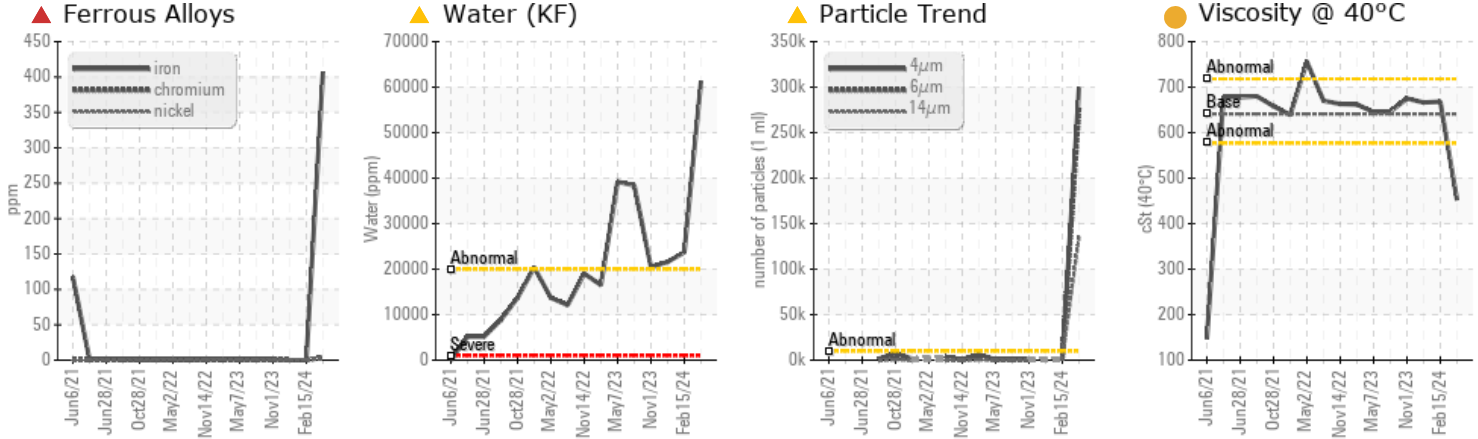
PROBLEM SUMMARY

Sample Rating Trend



Machine Id
HAARSLEV STEAM END BLOOD DRYER
 Component
Bearing
 Fluid
USPI 1580-680 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you perform a filter service and use off-line filtration to improve the cleanliness of the system fluid. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	MARGINAL	ABNORMAL
Iron	ppm	ASTM D5185m	>20	▲ 407	0	0
Water	%	ASTM D6304	>2.0	▲ 6.122	▲ 2.37	▲ 2.616
ppm Water	ppm	ASTM D6304	>20000	▲ 61223	▲ 23700	▲ 21600
Particles >4µm		ASTM D7647	>10000	▲ 299069	1306	---
Particles >6µm		ASTM D7647	>2500	▲ 274439	453	---
Particles >14µm		ASTM D7647	>160	▲ 135010	51	---
Particles >21µm		ASTM D7647	>40	▲ 53583	17	---
Particles >38µm		ASTM D7647	>10	▲ 142	3	---
Oil Cleanliness		ISO 4406 (c)	>20/18/14	▲ 25/25/24	18/16/13	---

Customer Id: IBPLEX01
 Sample No.: USPM36092
 Lab Number: 06175522
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Filter	---	---	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Filter Fluid	---	---	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

HISTORICAL DIAGNOSIS

WATER



15 Feb 2024 Diag: Doug Bogart

Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



WATER



04 Jan 2024 Diag: Doug Bogart

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report



WATER



01 Nov 2023 Diag: Doug Bogart

Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

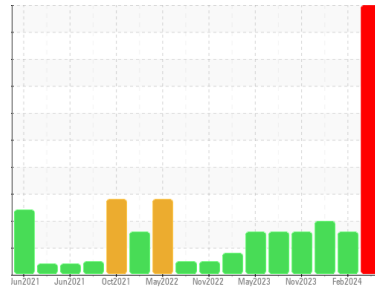
view report





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
HAARSLEV STEAM END BLOOD DRYER
 Component
Bearing
 Fluid
USPI 1580-680 (--- GAL)

DIAGNOSIS

▲ Recommendation
 We advise that you perform a filter service and use off-line filtration to improve the cleanliness of the system fluid. 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 severe.

▲ Contamination
 There is a high amount of particulates present in the oil. There is a high concentration of water present in the oil.

● Fluid Condition
 The oil viscosity is lower than normal. Confirmed. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			USPM36092	USPM30042	USPM30513
Sample Date	Client Info			09 May 2024	15 Feb 2024	04 Jan 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				SEVERE	MARGINAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	▲ 407	0	0
Chromium	ppm	ASTM D5185m	>20	4	0	0
Nickel	ppm	ASTM D5185m	>20	2	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	8	<1	0
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>20	3	2	2
Tin	ppm	ASTM D5185m	>20	<1	1	<1
Vanadium	ppm	ASTM D5185m		1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0

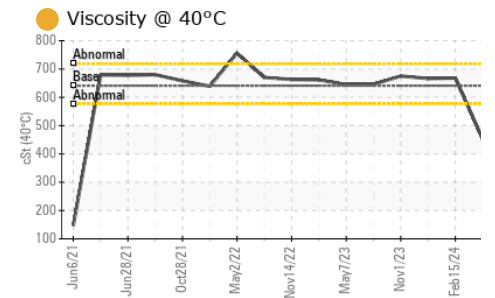
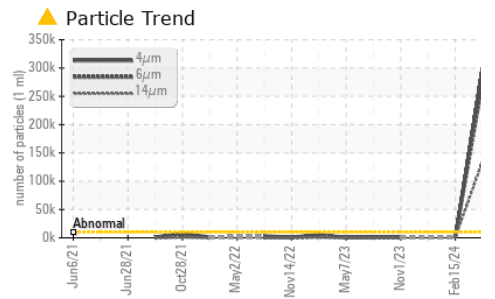
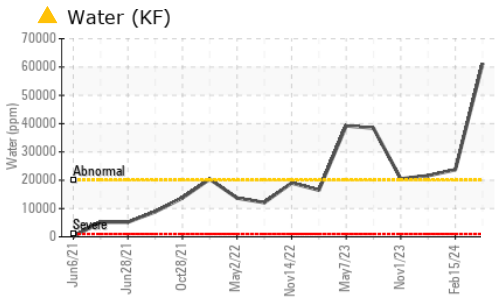
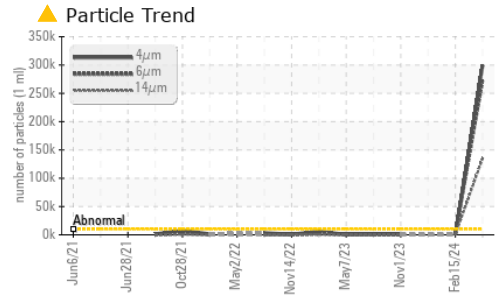
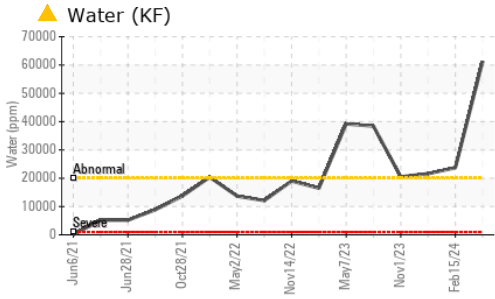
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8	1	6
Barium	ppm	ASTM D5185m		13	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		5	<1	0
Magnesium	ppm	ASTM D5185m		6	2	<1
Calcium	ppm	ASTM D5185m		42	3	3
Phosphorus	ppm	ASTM D5185m	290	553	1355	1902
Zinc	ppm	ASTM D5185m		67	2	0
Sulfur	ppm	ASTM D5185m		1339	938	1223

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	8	1	2
Sodium	ppm	ASTM D5185m		18	1	2
Potassium	ppm	ASTM D5185m	>20	4	1	2
Water	%	ASTM D6304	>2.0	▲ 6.122	▲ 2.37	▲ 2.616
ppm Water	ppm	ASTM D6304	>20000	▲ 61223	▲ 23700	▲ 21600

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ 299069	1306	---
Particles >6µm		ASTM D7647	>2500	▲ 274439	453	---
Particles >14µm		ASTM D7647	>160	▲ 135010	51	---
Particles >21µm		ASTM D7647	>40	▲ 53583	17	---
Particles >38µm		ASTM D7647	>10	▲ 142	3	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/14	▲ 25/25/24	18/16/13	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.6	0.94	0.59	0.73

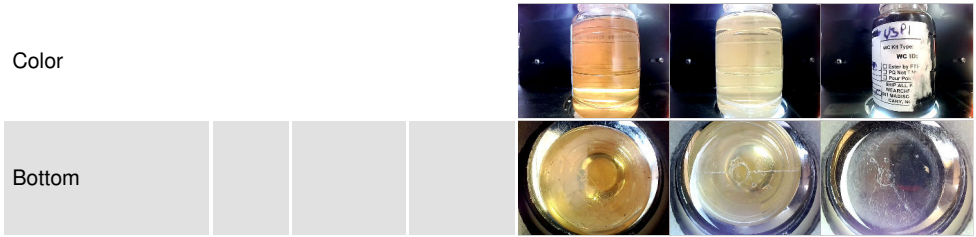
OIL ANALYSIS REPORT



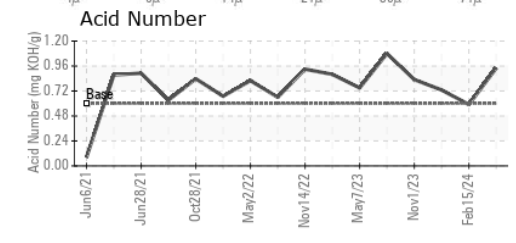
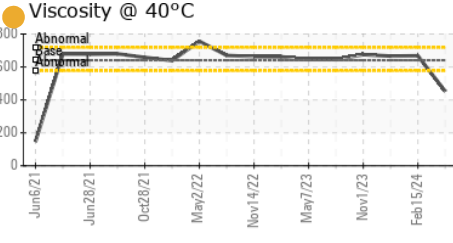
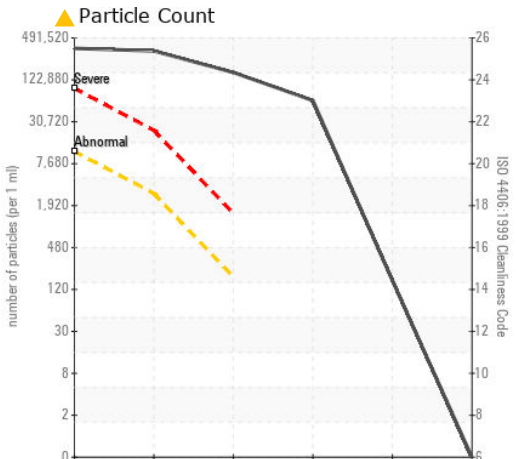
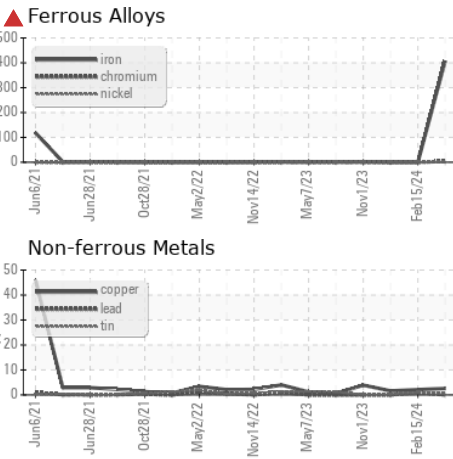
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2.0	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	641 ● 452.6	668	666.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM36092 **Received** : 10 May 2024
Lab Number : 06175522 **Tested** : 16 May 2024
Unique Number : 11021575 **Diagnosed** : 16 May 2024 - Doug Bogart
Test Package : IND 2

TYSON-LEXINGTON-USP - MAIN PLANT
 PO BOX 920, PROSPECT ROAD US 283
 LEXINGTON, NE
 US 68850
 Contact: SCOTT NIERMAN

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)