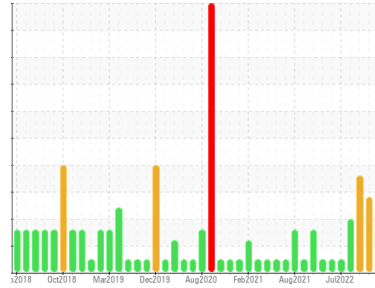




# PROBLEM SUMMARY

Sample Rating Trend



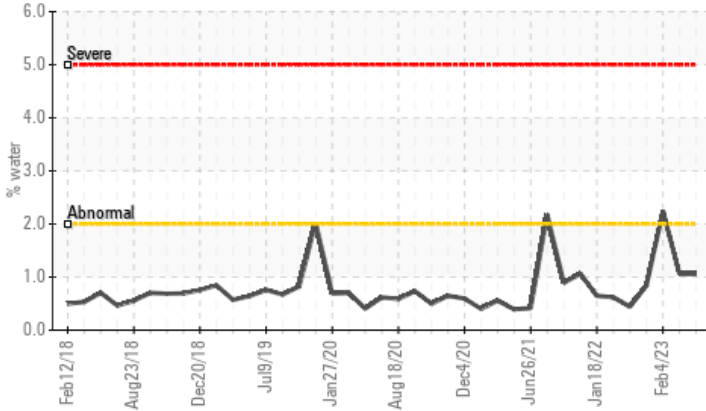
**WATER**



Machine Id  
**NORTH END HAARSLEV**  
 Component  
**Bearing**  
 Fluid  
**USPI 1580-680 (--- QTS)**

## COMPONENT CONDITION SUMMARY

### ▲ Water



## RECOMMENDATION

We advise that you check for the source of water entry. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status		<b>MARGINAL</b>	ATTENTION	ABNORMAL
Water	% ASTM D6304 >2	▲ <b>1.059</b>	▲ 1.061	▲ 2.24
ppm Water	ppm ASTM D6304	▲ <b>10593.1</b>	▲ 10615.4	▲ 22400

**Customer Id:** TYSDAKREN  
**Sample No.:** USPM29344  
**Lab Number:** 05932823  
**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](mailto:dougb@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Check Water Access	---	---	?	We advise that you check for the source of water entry.

## HISTORICAL DIAGNOSIS

### 16 May 2023 Diag: Doug Bogart

WATER



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

[view report](#)



### 04 Feb 2023 Diag: Doug Bogart

WATER



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

[view report](#)



### 23 Oct 2022 Diag: Jonathan Hester

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

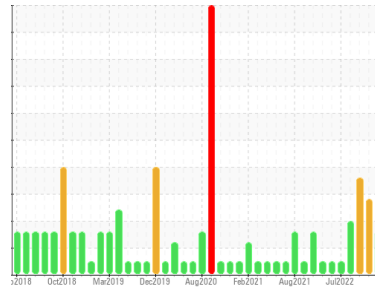
[view report](#)





# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id  
**NORTH END HAARSLEV**  
 Component  
**Bearing**  
 Fluid  
**USPI 1580-680 (--- QTS)**

## DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

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

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>USPM29344</b>	USPM28225	USPM26383
Sample Date	Client Info	<b>19 Aug 2023</b>	16 May 2023	04 Feb 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>MARGINAL</b>	ATTENTION	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	<b>2</b>	<1	<1
Chromium	ppm	ASTM D5185m >20	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m >20	<b>0</b>	1	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m >20	<b>2</b>	0	<1
Tin	ppm	ASTM D5185m >20	<b>&lt;1</b>	1	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	<b>2</b>	1	2
Calcium	ppm	ASTM D5185m	<b>1</b>	1	<1
Phosphorus	ppm	ASTM D5185m	<b>1551</b>	1612	1171
Zinc	ppm	ASTM D5185m	<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m	<b>1427</b>	843	1068

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Sodium	ppm	ASTM D5185m	<b>2</b>	<1	<1
Potassium	ppm	ASTM D5185m >20	<b>6</b>	4	2
Water	%	ASTM D6304 >2	<b>▲ 1.059</b>	▲ 1.061	▲ 2.24
ppm Water	ppm	ASTM D6304	<b>▲ 10593.1</b>	▲ 10615.4	▲ 22400

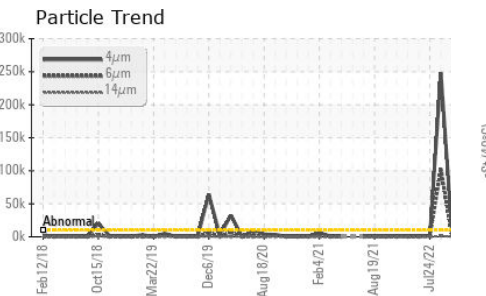
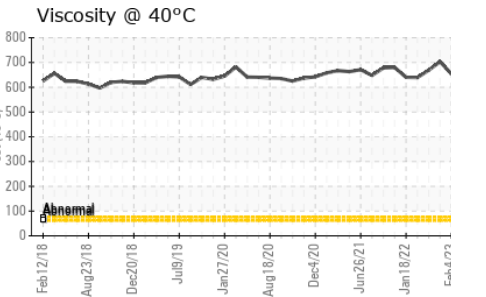
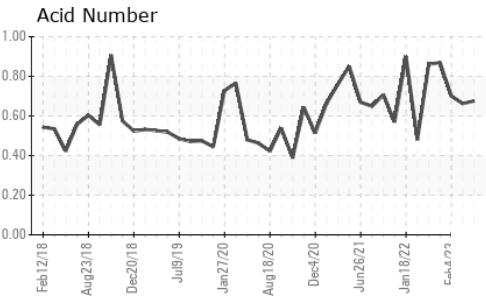
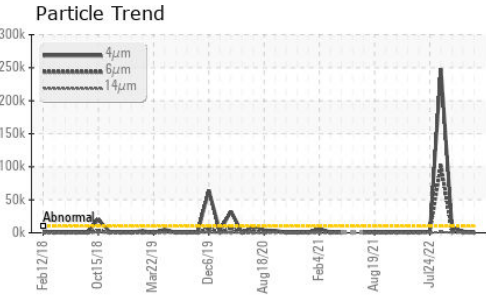
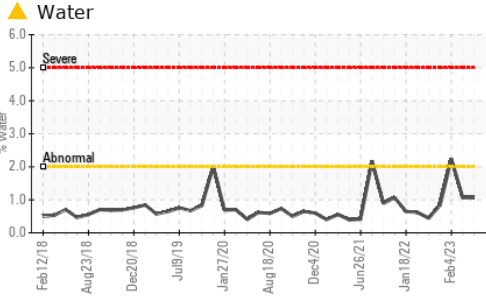
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>1406</b>	2021	7839
Particles >6µm	ASTM D7647 >2500	<b>432</b>	895	▲ 2945
Particles >14µm	ASTM D7647 >160	<b>81</b>	▲ 173	▲ 353
Particles >21µm	ASTM D7647 >40	<b>30</b>	▲ 65	▲ 91
Particles >38µm	ASTM D7647 >10	<b>6</b>	5	▲ 12
Particles >71µm	ASTM D7647 >3	<b>2</b>	0	1
Oil Cleanliness	ISO 4406 (c) >20/18/14	<b>18/16/14</b>	▲ 18/17/15	▲ 20/19/16

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.676</b>	0.662	0.70

# OIL ANALYSIS REPORT



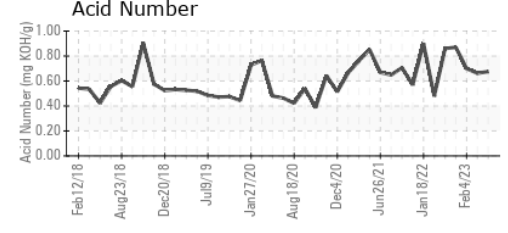
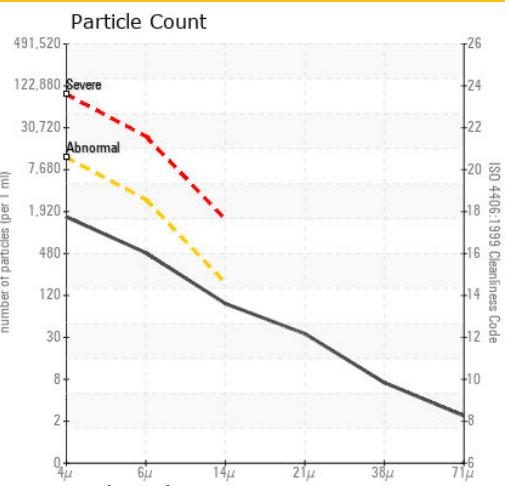
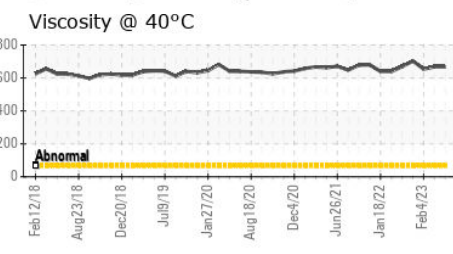
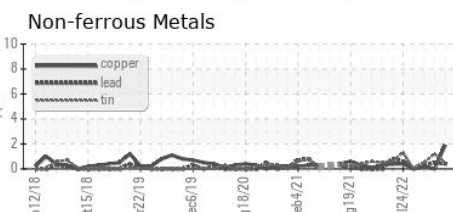
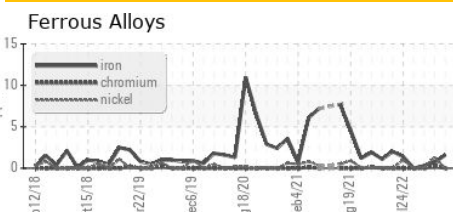
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	667	668	654

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USPM29344 **Received** : 23 Aug 2023  
**Lab Number** : 05932823 **Diagnosed** : 24 Aug 2023  
**Unique Number** : 10618094 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**TYSON**  
 US  
 Contact:

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)

T:  
 F: