

# PROBLEM SUMMARY

Sample Rating Trend

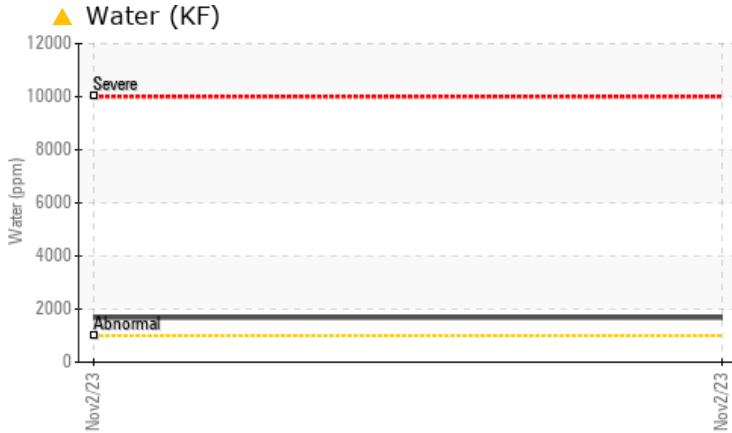
**WATER**



Area  
**SMART OIL**  
Machine Id  
**HERTZ VD014676 - BEYOND THE LENS**  
Component  
**Compressor**  
Fluid  
**SMARTOIL 6000 (1 GAL)**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>SEVERE</b>	---	---
Water	%	ASTM D6304	>0.1	▲ <b>0.168</b>	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ <b>1680</b>	---	---
Appearance	scalar	*Visual	NORML	▲ <b>HAZY</b>	---	---
Free Water	scalar	*Visual		● <b>10.0</b>	---	---

Customer Id: UCHERCHA  
Sample No.: UHK06011002  
Lab Number: 06011002  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
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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
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

Area  
**SMART OIL**  
Machine Id  
**HERTZ VD014676 - BEYOND THE LENS**  
Component  
**Compressor**  
Fluid  
**SMARTOIL 6000 (1 GAL)**



**DIAGNOSIS**

**Recommendation**  
Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

**Wear**  
All component wear rates are normal.

**Contamination**  
Appearance is hazy. Excessive free water present. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

**Fluid Condition**  
The AN level is acceptable for this fluid.

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>UHK06011002</b>	---	---
Sample Date	Client Info		<b>02 Nov 2023</b>	---	---
Machine Age	hrs	Client Info	<b>515</b>	---	---
Oil Age	hrs	Client Info	<b>205</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>0</b>	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	---
Nickel	ppm	ASTM D5185m		<b>&lt;1</b>	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---
Silver	ppm	ASTM D5185m		<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	---
Lead	ppm	ASTM D5185m	>25	<b>0</b>	---
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	---
Barium	ppm	ASTM D5185m		<b>0</b>	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	---
Manganese	ppm	ASTM D5185m		<b>0</b>	---
Magnesium	ppm	ASTM D5185m		<b>0</b>	---
Calcium	ppm	ASTM D5185m	20	<b>0</b>	---
Phosphorus	ppm	ASTM D5185m		<b>624</b>	---
Zinc	ppm	ASTM D5185m		<b>0</b>	---
Sulfur	ppm	ASTM D5185m		<b>1402</b>	---

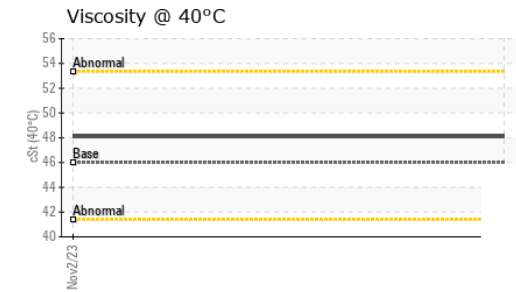
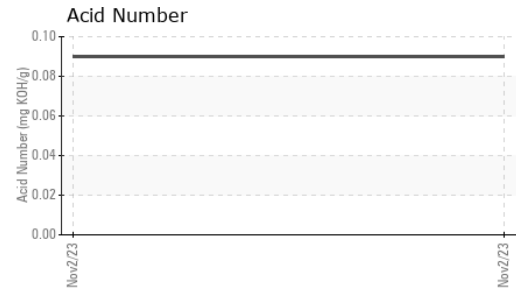
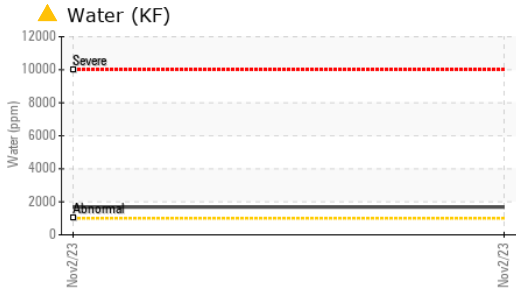
**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	---
Sodium	ppm	ASTM D5185m		<b>0</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	---
Water	%	ASTM D6304	>0.1	<b>▲ 0.168</b>	---
ppm Water	ppm	ASTM D6304	>1000	<b>▲ 1680</b>	---

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.09</b>	---

# OIL ANALYSIS REPORT



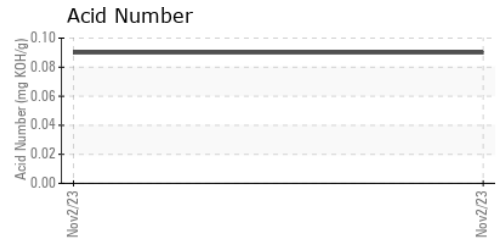
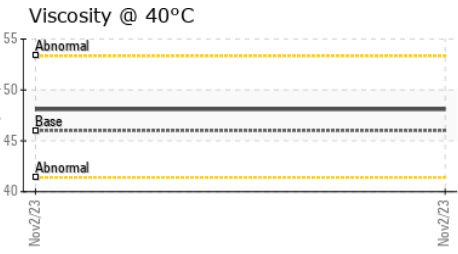
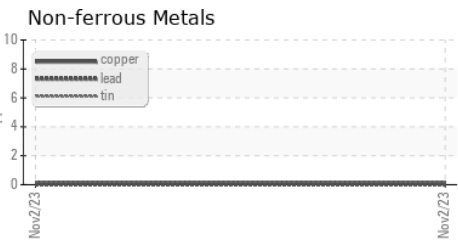
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	MODER	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	▲ HAZY	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	0.2%	---	---
Free Water	scalar	*Visual		◆ 10.0	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	48.1	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image
Bottom				no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UHK06011002 **Received** : 17 Nov 2023  
**Lab Number** : 06011002 **Diagnosed** : 21 Nov 2023  
**Unique Number** : 10750146 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF )

**HERTZ KOMPRESSOREN USA INC**  
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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)