



# PROBLEM SUMMARY

Area  
**TODAYS CAR WASH 2 - HARKER HEIGHTS**

Machine Id  
**2-4-PP**

Component  
**4 Hydraulic Power Pack**

Fluid  
**AW HYDRAULIC OIL ISO 32 (--- GAL)**

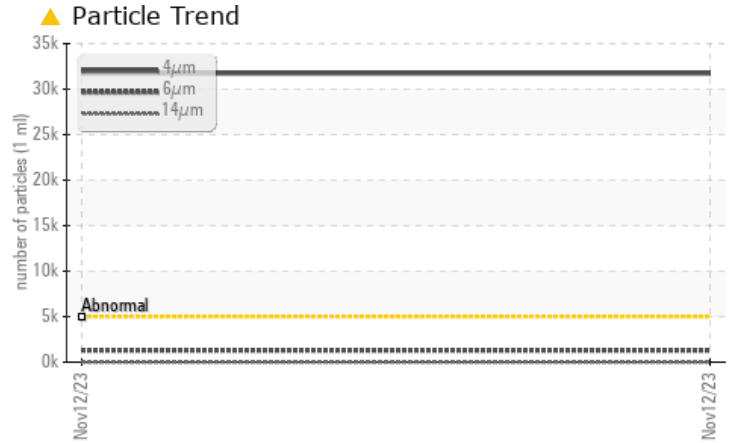
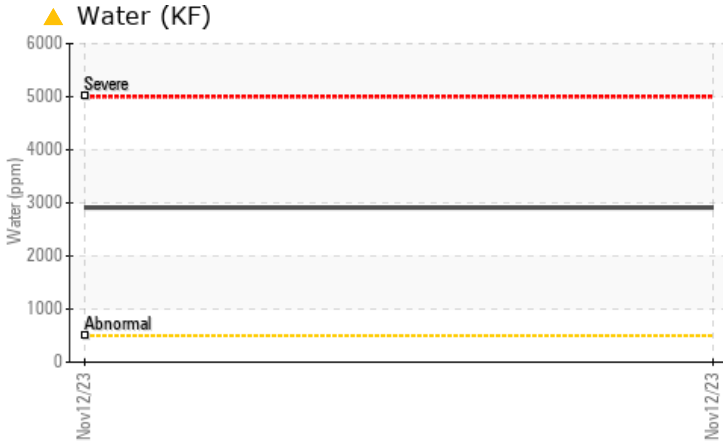
Sample Rating Trend



**WATER**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

No corrective action is recommended at this time.  
Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	---	---
Water	%	ASTM D6304	>0.05	▲ <b>0.291</b>	---	---
ppm Water	ppm	ASTM D6304	>500	▲ <b>2910</b>	---	---
Particles >4µm		ASTM D7647	>5000	▲ <b>31742</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ <b>22/17/11</b>	---	---

Customer Id: TODKIL  
Sample No.: WC0877694  
Lab Number: 06006286  
Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend

**WATER**

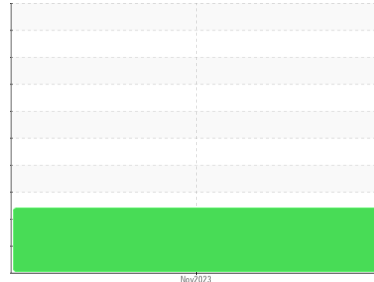


Area  
**TODAYS CAR WASH 2 - HARKER HEIGHTS**

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## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 6 microns in size) present in the oil. There is a light concentration of water present in the oil.

### 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>WC0877694</b>	---	---
Sample Date	Client Info	<b>12 Nov 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>20	<b>2</b>	---	---
Chromium ppm ASTM D5185m	>20	<b>0</b>	---	---
Nickel ppm ASTM D5185m	>20	<b>0</b>	---	---
Titanium ppm ASTM D5185m		<b>0</b>	---	---
Silver ppm ASTM D5185m		<b>0</b>	---	---
Aluminum ppm ASTM D5185m	>20	<b>0</b>	---	---
Lead ppm ASTM D5185m	>20	<b>&lt;1</b>	---	---
Copper ppm ASTM D5185m	>20	<b>3</b>	---	---
Tin ppm ASTM D5185m	>20	<b>&lt;1</b>	---	---
Vanadium ppm ASTM D5185m		<b>0</b>	---	---
Cadmium ppm ASTM D5185m		<b>&lt;1</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m	5	<b>0</b>	---	---
Barium ppm ASTM D5185m	5	<b>0</b>	---	---
Molybdenum ppm ASTM D5185m	5	<b>0</b>	---	---
Manganese ppm ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium ppm ASTM D5185m	25	<b>&lt;1</b>	---	---
Calcium ppm ASTM D5185m	200	<b>5</b>	---	---
Phosphorus ppm ASTM D5185m	300	<b>311</b>	---	---
Zinc ppm ASTM D5185m	370	<b>243</b>	---	---
Sulfur ppm ASTM D5185m	2500	<b>797</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	<b>&lt;1</b>	---	---
Sodium ppm ASTM D5185m		<b>0</b>	---	---
Potassium ppm ASTM D5185m	>20	<b>0</b>	---	---
Water % ASTM D6304	>0.05	<b>▲ 0.291</b>	---	---
ppm Water ppm ASTM D6304	>500	<b>▲ 2910</b>	---	---

## FLUID CLEANLINESS

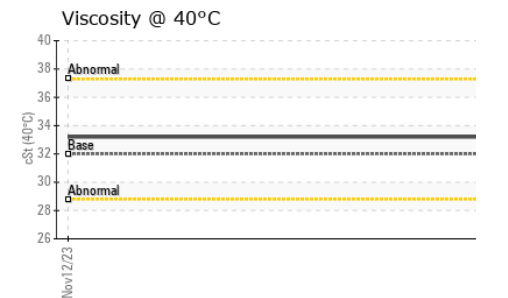
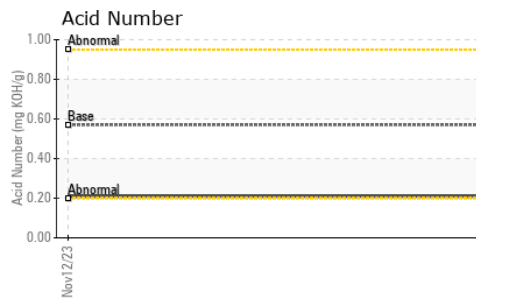
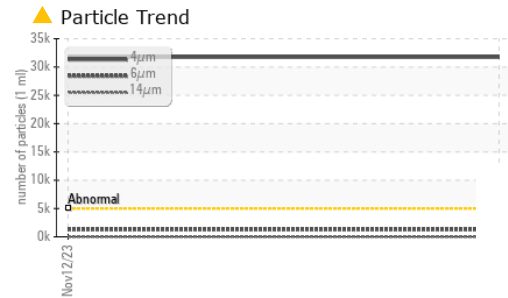
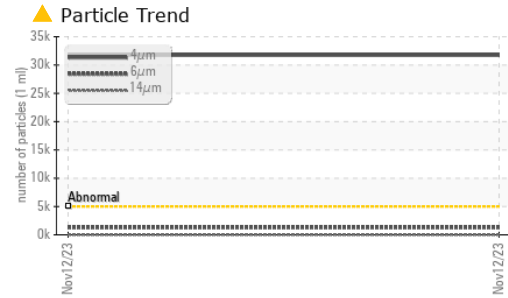
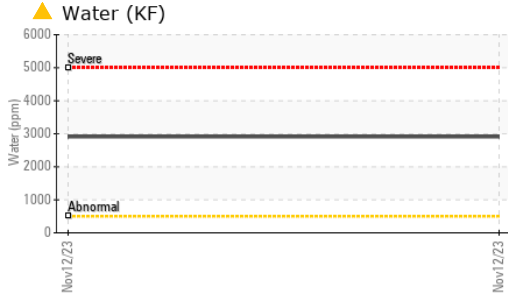
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	<b>▲ 31742</b>	---	---
Particles >6µm ASTM D7647	>1300	<b>1295</b>	---	---
Particles >14µm ASTM D7647	>160	<b>11</b>	---	---
Particles >21µm ASTM D7647	>40	<b>3</b>	---	---
Particles >38µm ASTM D7647	>10	<b>0</b>	---	---
Particles >71µm ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	<b>▲ 22/17/11</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	0.57	<b>0.21</b>	---	---



# OIL ANALYSIS REPORT



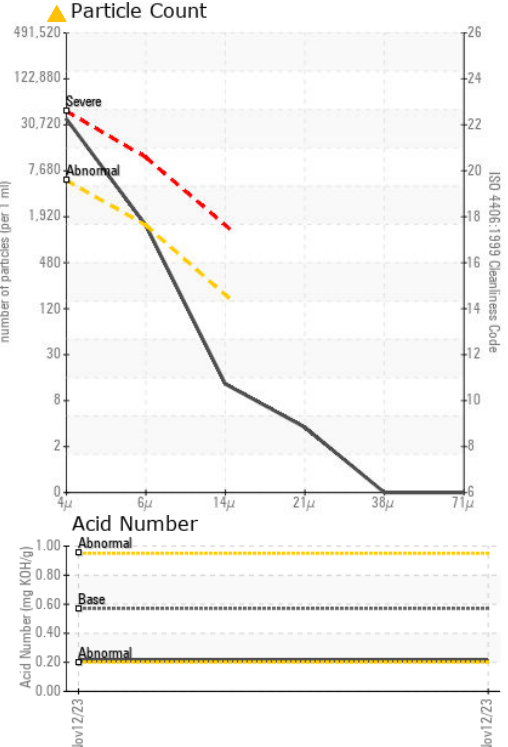
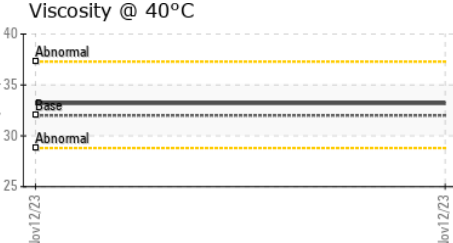
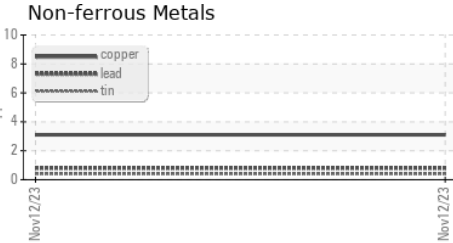
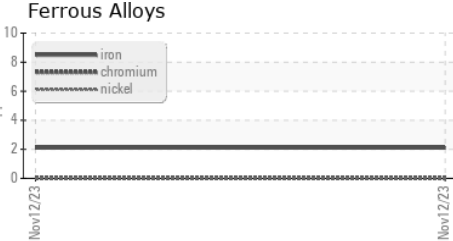
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	0.2%	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	33.2	---

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0877694 **Received** : 13 Nov 2023  
**Lab Number** : 06006286 **Diagnosed** : 16 Nov 2023  
**Unique Number** : 10740048 **Diagnostician** : Jonathan Hester  
**Test Package** : PLANT

**TODAYS CAR WASH**  
 514 S FT HOOD STREET  
 KILLEEN, TX  
 US 76549-6289  
 Contact: HOWARD SCHULTZ  
 howards@todayscarwash.com  
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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)