

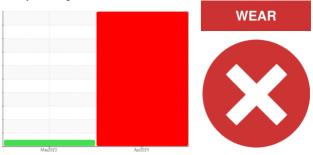
## **PROBLEM SUMMARY**

# Sample Rating Trend

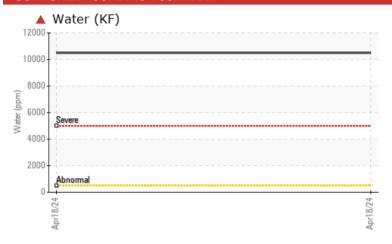
## STORE 728 Machine Id [STORE 728] 728-GRILL/ROCKER

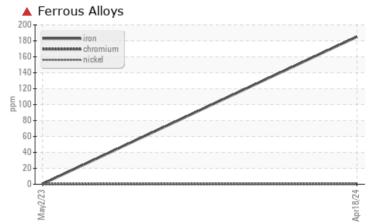
Hydraulic Power Pack

SAFETY-KLEEN PERFORMANCE PLUS HYD. AW32 (--- GAL)



## **COMPONENT CONDITION SUMMARY**





## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	NORMAL				
Iron	ppm	ASTM D5185m	>20	<b>185</b>	<1				
Water	%	ASTM D6304	>0.05	<b>1.05</b>					
ppm Water	ppm	ASTM D6304	>500	<b>10500</b>					
Silt	scalar	*Visual	NONE	MODER	NONE				
Emulsified Water	scalar	*Visual	>0.05	<b>0.2%</b>	NEG				

Customer Id: MISDES Sample No.: WC0933745 Lab Number: 06160312 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

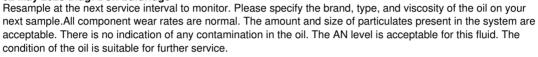
To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.			
Change 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.			
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.			

## HISTORICAL DIAGNOSIS

NODMAL







Report Id: MISDES [WUSCAR] 06160312 (Generated: 04/30/2024 15:05:49) Rev: 1

Contact/Location: COLE HUNTER - MISDES

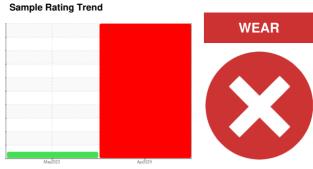


## **OIL ANALYSIS REPORT**

**STORE 728** [STORE 728] 728-GRILL/ROCKER

Hydraulic Power Pack

SAFETY-KLEEN PERFORMANCE PLUS HY



## **DIAGNOSIS**

#### Recommendation

Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

#### Wear

The iron level is severe.

#### Contamination

Appearance is milky. There is a high concentration of water present in the oil. There is a moderate amount of visible silt present in the sample.

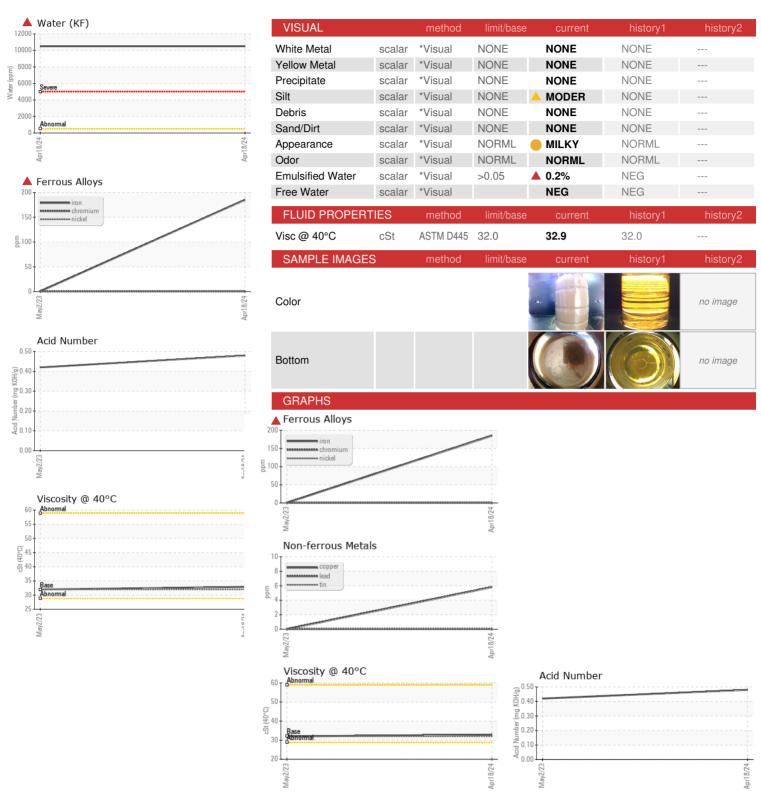
## **Fluid Condition**

The oil is no longer serviceable due to the presence of contaminants.

/D. AW32 ( GA	AL)		May2023	AprŽ024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0933745	WC0706612	
Sample Date		Client Info		18 Apr 2024	02 May 2023	
Machine Age	yrs	Client Info		4	0	
Oil Age	yrs	Client Info		1	0	
Oil Changed	,	Client Info		Changed	N/A	
Sample Status				SEVERE	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>185</b>	<1	
Chromium	ppm	ASTM D5185m	>20	<1	0	
Nickel	ppm	ASTM D5185m	>20	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>20	0	<1	
Lead	ppm	ASTM D5185m	>20	0	0	
Copper	ppm	ASTM D5185m	>20	6	0	
Tin	ppm	ASTM D5185m	>20	0	0	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	11	0	0	
Barium	ppm	ASTM D5185m	0.0	0	0	
Molybdenum	ppm	ASTM D5185m	1.2	0	0	
Manganese	ppm	ASTM D5185m		2	<1	
Magnesium	ppm	ASTM D5185m	0.0	0	0	
Calcium	ppm	ASTM D5185m	35	28	3	
Phosphorus	ppm	ASTM D5185m	324	335	304	
Zinc	ppm	ASTM D5185m	400	394	394	
Sulfur	ppm	ASTM D5185m	1528	1286	568	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	0	
Sodium	ppm	ASTM D5185m		2	0	
Potassium	ppm	ASTM D5185m	>20	<1	0	
Water	%	ASTM D6304	>0.05	<b>1.05</b>		
ppm Water	ppm	ASTM D6304	>500	<b>10500</b>		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000		2443	
Particles >6µm		ASTM D7647	>1300		254	
Particles >14μm		ASTM D7647	>160		10	
Particles >21μm		ASTM D7647	>40		3	
Particles >38μm		ASTM D7647	>10		0	
Particles >71μm		ASTM D7647	>3		0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14		18/15/10	
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.48	0.42	



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. Lab Number : 06160312 Unique Number : 10995735 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0933745 Received : 25 Apr 2024

Tested : 30 Apr 2024 Diagnosed : 30 Apr 2024 - Jonathan Hester

**MISTER CAR WASH - IOWA REGION** 3405 WILLIAMS BLVD SW

CEDAR RAPIDS, IA US 52404 Contact: COLE HUNTER

chunter@mistercarwash.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.  $^st$  - 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: