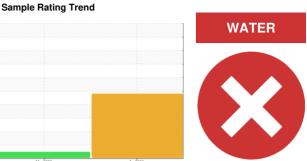


PROBLEM SUMMARY

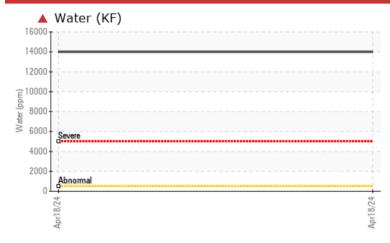


STORE 728 [STORE 728] 728-OMNI

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				
Water	%	ASTM D6304	>0.05	1.40					
ppm Water	ppm	ASTM D6304	>500	14000					
Silt	scalar	*Visual	NONE	MODER	NONE				
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG				

Customer Id: MISDES Sample No.: WC0933746 Lab Number: 06160313 Test Package: PLANT



To manage this report scan the QR code

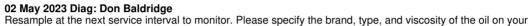
To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@wearcheckusa.com

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

NORMAL



next sample. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



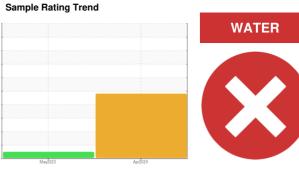


OIL ANALYSIS REPORT

STORE 728 [STORE 728] 728-OMNI

Hydraulic Power Pack

SAFETY-KLEEN PERFORMANCE PLUS HYI



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

All component wear rates are normal.

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	L)		May2023	Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0933746	WC0706613	
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	7	0	
Chromium	ppm	ASTM D5185m	>20	0	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	8	<1	
Tin	ppm	ASTM D5185m	>20	<1	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	8	0	
Barium	ppm	ASTM D5185m	0.0	0	0	
Molybdenum	ppm	ASTM D5185m	1.2	6	0	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	0.0	26	0	
Calcium	ppm	ASTM D5185m	35	100	0	
Phosphorus	ppm	ASTM D5185m	324	370	292	
Zinc	ppm	ASTM D5185m	400	430	382	
Sulfur	ppm	ASTM D5185m	1528	1269	540	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	0	
Sodium	ppm	ASTM D5185m		1	0	
Potassium	ppm	ASTM D5185m	>20	<1	0	
Water	%	ASTM D6304	>0.05	1.40		
ppm Water	ppm	ASTM D6304	>500	14000		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000		686	
Particles >6µm		ASTM D7647	>1300		152	
Particles >14µm		ASTM D7647	>160		17	
Particles >21µm		ASTM D7647	>40		5	
Particles >38µm		ASTM D7647	>10		1	
Particles >71µm		ASTM D7647	>3		0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14		17/14/11	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.56	0.43	



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WC0933746 Lab Number : 06160313 Unique Number : 10995736

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Diagnosed Test Package : PLANT

: 25 Apr 2024 : 30 Apr 2024 : 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 T:

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)

F: