

PROBLEM SUMMARY

Sample Rating Trend

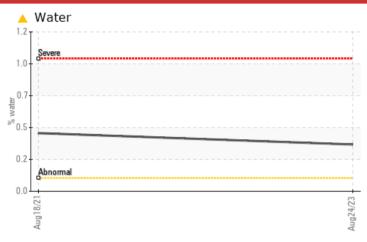
WATER

PIERCE LADDER 2310

Component **Hydraulic System**Fluid

NOT GIVEN (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	NORMAL	ABNORMAL			
Water	%	ASTM D6304	>0.1	△ 0.352		△ 0.438			
ppm Water	ppm	ASTM D6304	>1000	3520		4380			
Debris	scalar	*Visual	NONE	▲ MODER	NONE	▲ MODER			
Appearance	scalar	*Visual	NORML	HAZY	NORML	▲ HAZY			
Free Water	scalar	*Visual		>10%	NEG	<u>▲</u> 1.0			

Customer Id: TUSTUSAL Sample No.: WC0835794 Lab Number: 05933977 Test Package: FLEET



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		
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.		
Resample			?	We recommend an early resample to monitor this condition.		
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample.		
Check Water Access			?	We advise that you check for the source of water entry.		
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.		

HISTORICAL DIAGNOSIS

08 Aug 2022 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



18 Aug 2021 Diag: Don Baldridge

WATER



We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. There is a moderate amount of visible silt present in the sample. There is a moderate concentration of water present in the oil. Free water present. The condition of the oil is acceptable for the time in service.



18 Sep 2019 Diag: Don Baldridge

VIS DEBRIS



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.





OIL ANALYSIS REPORT

Sample Rating Trend



PIERCE LADDER 2310

Hydraulic System

NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

Appearance is unacceptable Excessive free water present. There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

		Sen 201	9 Aug ² 021	Aug2022 Au	ug2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
		Client Info	mmo bass	WC0835794	WC0724276	WC0591185
Sample Number		Client Info		24 Aug 2023	08 Aug 2022	18 Aug 2021
Sample Date Machine Age	hrs	Client Info		0 24 Aug 2023	00 Aug 2022 0	87
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1115	Client Info		N/A	Not Changd	Not Changd
Sample Status		Ciletit IIIIO		SEVERE	NORMAL	ABNORMAL
				SEVENE		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	7	4	4
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	1	1	<1
Lead	ppm	ASTM D5185m	>10	0	1	<1
Copper	ppm	ASTM D5185m	>75	8	20	7
Tin	ppm	ASTM D5185m	>10	0	0	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	1	3
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		2	3	0
Calcium	ppm	ASTM D5185m		97	113	100
Phosphorus	ppm	ASTM D5185m		626	548	630
Zinc	ppm	ASTM D5185m		810	705	854
Sulfur	ppm	ASTM D5185m		2053	1832	1705
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	2	1
Sodium	ppm	ASTM D5185m		<1	3	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.1	△ 0.352		△ 0.438
ppm Water	ppm	ASTM D6304	>1000	▲ 3520		▲ 4380
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Debris	scalar	*Visual	NONE	▲ MODER	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML	▲ HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG	NEG
Free Water	scalar	*Visual		>10%	NEG	<u> </u>
2:37:37) Rev: 1				Contact/Loca	ation: J KLOSTE	R - TUSTUSAL



OIL ANALYSIS REPORT







Laboratory Sample No.

Lab Number

: WC0835794 : 05933977 Unique Number : 10619248

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Aug 2023

Diagnosed : 28 Aug 2023 Diagnostician : Jonathan Hester

Test Package : FLEET (Additional Tests: KF) 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)

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