

#### **PROBLEM SUMMARY**

### Area [J7557] **BLANK DRAW PRESS (S/N 12535)**

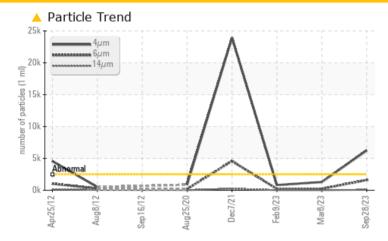
**Hydraulic System** 

AW HYDRAULIC OIL ISO 46 (--- GAL)

# Sample Rating Trend



#### **COMPONENT CONDITION SUMMARY**



#### RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TES	ST RESULTS				
Sample Status			ABNORMAL	NORMAL	NORMAL
Particles >4μm	ASTM D7647	>2500	<u>6254</u>	1296	812
Particles >6μm	ASTM D7647	>320	<b>1603</b>	234	218
Particles >14μm	ASTM D7647	>40	<b>A</b> 73	20	20
Particles >21µm	ASTM D7647	>10	<u> </u>	4	2
Oil Cleanliness	ISO 4406 (c)	>18/15/12	<u>^</u> 20/18/13	17/15/11	17/15/11

Customer Id: NEFSAI Sample No.: WC0809633 Lab Number: 05968934 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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 recommend you service the filters on this component.
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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### HISTORICAL DIAGNOSIS

08 Mar 2023 Diag: Angela Borella

#### NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## view report

#### 09 Feb 2023 Diag: Doug Bogart

#### 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 amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

# view report

#### 07 Dec 2021 Diag: Don Baldridge

#### VISCOSITY



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



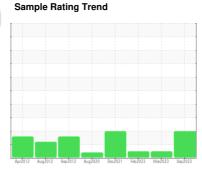


#### **OIL ANALYSIS REPORT**

## Area [J7557] **BLANK DRAW PRESS (S/N 12535)**

**Hydraulic System** 

AW HYDRAULIC OIL ISO 46 (--- GAL)





#### **DIAGNOSIS**

#### Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

#### **Fluid Condition**

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		WC0809633	WC0778447	WC0725383			
Sample Date		Client Info		28 Sep 2023	08 Mar 2023	09 Feb 2023			
Machine Age	yrs	Client Info		11	0	0			
Oil Age	yrs	Client Info		0	0	0			
Oil Changed		Client Info		N/A	N/A	N/A			
Sample Status				ABNORMAL	NORMAL	NORMAL			
WEAR METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>40	<1	0	0			
Chromium	ppm	ASTM D5185m	>4	<1	0	0			
Nickel	ppm	ASTM D5185m	>20	0	0	0			
Titanium	ppm	ASTM D5185m		0	<1	0			
Silver	ppm	ASTM D5185m		0	0	0			
Aluminum	ppm	ASTM D5185m	>4	2	<1	0			
Lead	ppm	ASTM D5185m	>10	0	0	0			
Copper	ppm	ASTM D5185m	>60	<1	<1	<1			
Tin	ppm	ASTM D5185m	>4	0	0	0			
Antimony	ppm	ASTM D5185m							
Vanadium	ppm	ASTM D5185m		0	<1	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	5	0	0	0			
Barium	ppm	ASTM D5185m	5	0	0	0			
Molybdenum	ppm	ASTM D5185m	5	<1	0	<1			
Manganese	ppm	ASTM D5185m		0	<1	0			
Magnesium	ppm	ASTM D5185m	25	2	2	1			
Calcium	ppm	ASTM D5185m	200	65	43	38			
Phosphorus	ppm	ASTM D5185m	300	404	292	328			
Zinc	ppm	ASTM D5185m	370	556	351	426			
Sulfur	ppm	ASTM D5185m	0500						
		710 1111 20 100111	2500	1169	667	799			
CONTAMINANTS	;	method	limit/base	1169 current	667 history1	799 history2			
CONTAMINANTS Silicon	ppm								
		method	limit/base	current	history1	history2			
Silicon	ppm	method ASTM D5185m	limit/base	current	history1	history2 <1			
Silicon Sodium	ppm ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >20	current <1	history1 0 0	history2 <1 0			
Silicon Sodium Potassium	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >20 >20	current <1 1 <1	history1 0 0 0	history2 <1 0 <1			
Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >20 >20 limit/base	current <1 1 <1 current	history1 0 0 0 history1	history2 <1 0 <1 history2			
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647	limit/base >20 >20 limit/base >2500	current <1 1 <1 current  ▲ 6254	history1 0 0 0 history1 1296	history2 <1 0 <1 history2 812			
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm	method  ASTM D5185m ASTM D5185m ASTM D5185m method  ASTM D7647 ASTM D7647	limit/base	current  <1 1 <1 current  ▲ 6254 ▲ 1603	history1 0 0 0 history1 1296 234	history2 <1 0 <1 history2 812 218			
Silicon Sodium Potassium  FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647	limit/base	current  <1 1 <1 current  ▲ 6254 ▲ 1603 ▲ 73	history1  0 0 0 history1  1296 234 20	history2 <1 0 <1 history2 812 218 20			
Silicon Sodium Potassium  FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >20 >20 limit/base >2500 >320 >40 >10	current  <1 1 <1 current  ▲ 6254 ▲ 1603 ▲ 73 ▲ 16	history1  0 0 0 history1 1296 234 20 4	history2 <1 0 <1 history2 812 218 20 2			
Silicon Sodium Potassium  FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm	method  ASTM D5185m ASTM D5185m ASTM D5185m method  ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >20	current  <1 1 <1 current  ▲ 6254 ▲ 1603 ▲ 73 ▲ 16 1	history1  0 0 0 history1 1296 234 20 4 0	history2 <1 0 <1 history2 812 218 20 2 0			
Silicon Sodium Potassium  FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647	limit/base >20	current  <1 1 <1 current  ▲ 6254 ▲ 1603 ▲ 73 ▲ 16 1 0	history1  0 0 0 history1 1296 234 20 4 0	history2 <1 0 <1 history2 812 218 20 2 0 0			



Acid Number

1.00 T Abnormal

#### **OIL ANALYSIS REPORT**

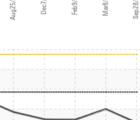


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history1	historv2

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FLUID PROPER	RIIES	method	iimit/base	current	nistory i	nistor
Visc @ 40°C	cSt	ASTM D445	46	45.7	45.2	45.9

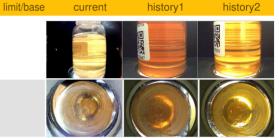
method

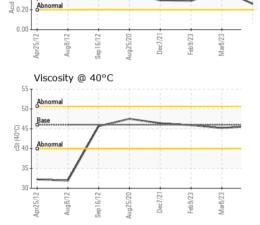


Color

**Bottom** 

SAMPLE IMAGES





	APHS											
Ferr	ous Alloy	S					▲ Parti	icle Cou	nt			т2
	iron	1										
******	chromiun	1					122,880 -					-2
-							30,720 Severe					+2
1							7.000					
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Apr25/12	Aug8/12.	Aug25/20	Dec7/21	Feb9/23	Mar8/23	Sep28/23	图 1,920	1:				+2 +1 +1 +1
	-ferrous						Abnormal 1,920	1				1
T							of par		\			
	copper						120 -		11			1
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Apr25/12	Aug8/12.	Aug25/20	Dec7/21	Feb9/23	Mar8/23	Sep28/23	2-				1	
Apı	Au	Aug	ā	윤	Σ	Sep	04//	6µ	14μ	21μ	38μ	
	osity @ 4	10°C					Δcid	Numbe		21μ	30µ	/1μ
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	/						5 0.20 Abnor	mal				
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Apr25/12	Aug8/12	Aug25/20	Dec7/21	Feb9/23	Mar8/23	Sep28/23	Apr25/11	Aug8/12	Sep16/12	Dec7/21	Feb 9/23	Mar8/23





Certificate L2367

Test Package : IND 2

Laboratory Sample No. Lab Number Unique Number : 10675485

: WC0809633 : 05968934

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 04 Oct 2023 : 05 Oct 2023 Diagnostician : Wes Davis

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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