

PROBLEM SUMMARY

Sample Rating Trend

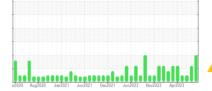
ISO

PRESS

PRESS COOLING AND FILTERING (S/N PR205F20)

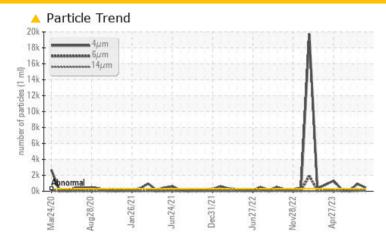
Hydraulic System

AW HYDRAULIC OIL ISO 68 (--- GAL)





COMPONENT CONDITION SUMMARY



RECOMMENDATION

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. 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 TEST RESULTS								
Sample Status			ABNORMAL	ABNORMAL	NORMAL			
Particles >4μm	ASTM D7647	>320	436	4 940	77			
Particles >6μm	ASTM D7647	>80	<u> </u>	<u> </u>	26			
Particles >14μm	ASTM D7647	>10	^ 27	10	3			
Particles >21μm	ASTM D7647	>3	1 1	4	1			
Oil Cleanliness	ISO 4406 (c)	>15/13/10	16/14/12	▲ 17/14/10	13/12/9			

Customer Id: JMHCRY Sample No.: WC0734576 Lab Number: 05935334 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 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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.
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

24 Jul 2023 Diag: Wes Davis



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



26 Jun 2023 Diag: Wes Davis





Resample at the next service interval to monitor. 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. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



01 Jun 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. 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. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





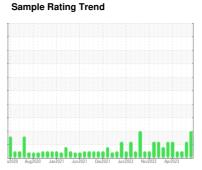
OIL ANALYSIS REPORT

PRESS

PRESS COOLING AND FILTERING (S/N PR205F20)

Hydraulic System

AW HYDRAULIC OIL ISO 68 (--- GAL)





DIAGNOSIS

Recommendation

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. 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 particulates (2 to 100 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

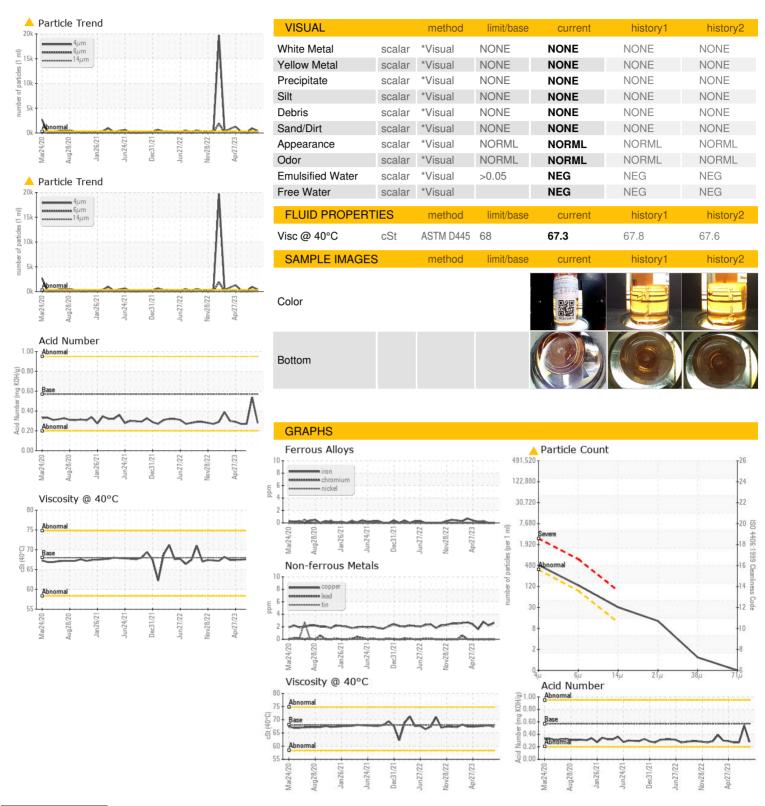
Fluid Condition

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

		r2020 Aug20	20 Jan 2021 Jun 2021	Dec2021 Jun2022 Nov2022	Apr2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0734576	WC0782967	WC0782858
Sample Date		Client Info		22 Aug 2023	24 Jul 2023	26 Jun 2023
Machine Age	days	Client Info		0	0	0
Oil Age	days	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	<1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	3	2	3
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	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	<1	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	25	2	4	7
Calcium	ppm	ASTM D5185m	200	68	65	70
Phosphorus	ppm	ASTM D5185m	300	356	352	337
Zinc	ppm	ASTM D5185m	370	435	441	452
Sulfur	ppm	ASTM D5185m	2500	1002	1001	1060
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	0
Sodium	ppm	ASTM D5185m		1	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	1	<1
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>320	436	4 940	77
Particles >6µm		ASTM D7647	>80	<u> </u>	<u></u> 118	26
Particles >14μm		ASTM D7647	>10	<u>^</u> 27	10	3
Particles >21µm		ASTM D7647	>3	<u> 11</u>	4	1
Particles >38μm		ASTM D7647	>3	1	0	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>15/13/10	<u> </u>	<u>▲</u> 17/14/10	13/12/9
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.28	0.539	0.27



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 05935334 : 10620605 Test Package : IND 2

: WC0734576

: 25 Aug 2023 Received : 28 Aug 2023 Diagnosed : Wes Davis Diagnostician

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

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) J.M. Huber Corporation

PO BOX 38 CRYSTAL HILL, VA

US 24539 Contact: Ted Hudson ted.hudson@huber.com

Contact/Location: Ted Hudson - JMHCRY

T: (434)476-6628 F: (434)476-8133