

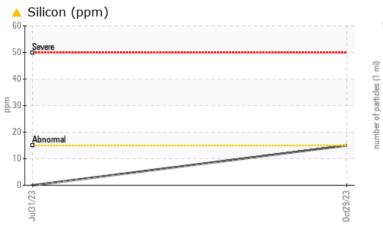
# **PROBLEM SUMMARY**

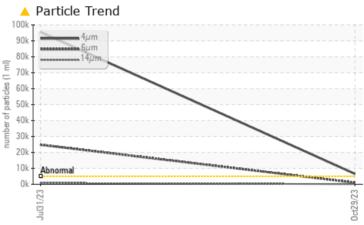
Sample Rating Trend

DIRT

Machine Id
M2
Component
Hydraulic System
Fluid
PRESLIA 68 (20 GAL)

### COMPONENT CONDITION SUMMARY





#### RECOMMENDATION

Check seals and/or filters for points of contaminant entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	SEVERE			
Silicon	ppm	ASTM D5185(m)	>15	<b>15</b>	0			
Particles >4µm		ASTM D7647	>5000	<b>6510</b>	95525			
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 20/17/13	<b>2</b> 4/22/17			
PrtFilter					•	no image		

Customer Id: HEWBRO Sample No.: WC0833114 Lab Number: 02592677 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

# RECOMMENDED ACTIONS

11200111111211212110110110						
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.		
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.		
Check Seals			?	Check seals and/or filters for points of contaminant 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

#### 31 Jul 2023 Diag: Kevin Marson

VISUAL METAL



We advise that you check all areas where contaminants can enter the system. We advise that you check for visible metal particles in the oil. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. Light concentration of visible metal present. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.





# **OIL ANALYSIS REPORT**

Sample Rating Trend



history2

Machine Id **M2** Component **Hydraulic System** PRESLIA 68 (20 GAL)

#### **DIAGNOSIS**

#### Recommendation

Check seals and/or filters for points of contaminant entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

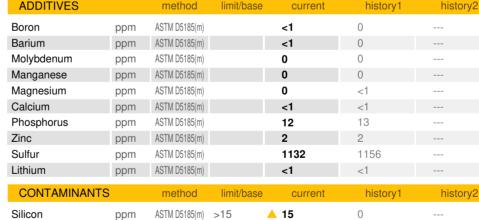
#### Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

#### **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.

SAMPLE INFORM	MATION	method	limit/base	current	history1	
Sample Number		Client Info		WC0833114	WC0833117	
Sample Date		Client Info		29 Oct 2023	31 Jul 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	SEVERE	
WEAR METALS		method	limit/base	current	history1	
Iron	ppm	ASTM D5185(m)	>20	0	<1	
Chromium	ppm	ASTM D5185(m)	>20	0	0	
Nickel	ppm	ASTM D5185(m)	>20	<1	0	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		<1	0	
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	
Lead	ppm	ASTM D5185(m)	>20	<1	<1	
Copper	ppm	ASTM D5185(m)	>20	<1	<1	
Tin	ppm	ASTM D5185(m)	>20	2	5	
Antimony	ppm	ASTM D5185(m)		0	<1	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	
Boron	ppm	ASTM D5185(m)		<1	0	



Silicon	ppiii	A01101 D0100(111)	>10	_ 13	0	
Sodium	ppm	ASTM D5185(m)		<1	0	
Potassium	ppm	ASTM D5185(m)	>20	0	<1	
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>△</b> 6510	95525	
Particles >6µm		ASTM D7647	>1300	998	<b>24787</b>	
Particles >14µm		ASTM D7647	>160	71	<u>▲</u> 825	
Particles >21µm		ASTM D7647	>40	19	<u>^</u> 209	
Particles >38µm		ASTM D7647	>10	2	8	
Particles >71μm		ASTM D7647	>3	1	1	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 20/17/13	<b>2</b> 4/22/17	
FLUID DEGRADATION		method	limit/base	current	history1	history2

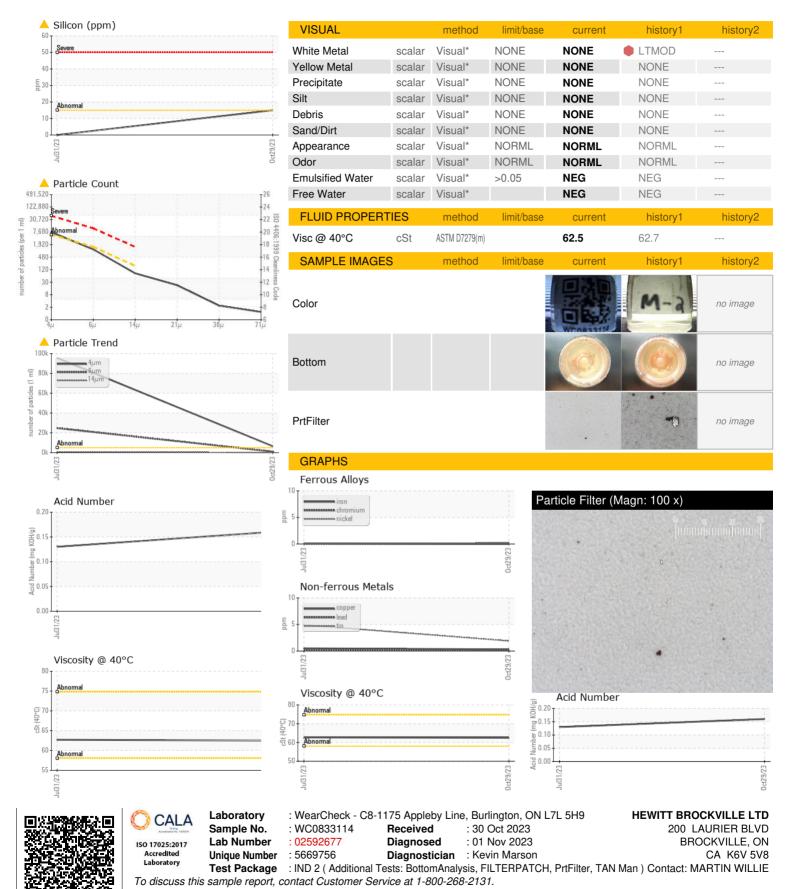


Acid Number (AN) mg KOH/g ASTM D974\*

0.13 Contact/Location: MARTIN WILLIE - HEWBRO



## **OIL ANALYSIS REPORT**



Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.

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