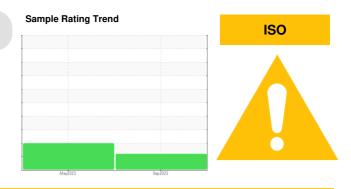


## **PROBLEM SUMMARY**

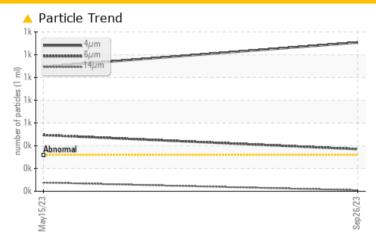
# [184562-N2STV4W] **BLUE ORIGIN G1 HPU**

**Hydraulic System** 

**RADCOLUBE FR282 (200 GAL)** 



### **COMPONENT CONDITION SUMMARY**



### RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL	ABNORMAL			
Particles >4µm	ASTM D7647	>320	<b>1307</b>	<u>▲</u> 1095			
Particles >6µm	ASTM D7647	>80	<b>▲</b> 370	<b>494</b>			
Oil Cleanliness	ISO 4406 (c)	>15/13/10	<b>18/16/10</b>	<b>17/16/13</b>			
PrtFilter					no image		

Customer Id: BLUVAN Sample No.: PH05963588 Lab Number: 05963588 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@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 recommend you service the filters on this component if applicable.

### HISTORICAL DIAGNOSIS

15 May 2023 Diag: Doug Bogart





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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**







history2

# [184562-N2STV4W] **BLUE ORIGIN G1 HPU**

**Hydraulic System** 

**RADCOLUBE FR282 (200 GAL)** 

### **DIAGNOSIS**

### Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. Fuel content negligible. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. Chlorine measured at 15.2 ppm.

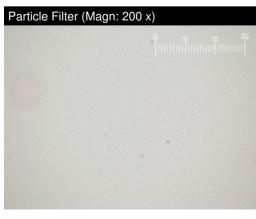
### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

. 0.0						
			1			
		<u>-</u>	May2023	Sep2023		
SAMPLE INFORMA	ATION	method	limit/base	current	history1	
Sample Number	C	Client Info		PH05963588	PH05853919	
Sample Date		Client Info		26 Sep 2023	15 May 2023	
Machine Age	hrs C	Client Info		0	0	
Oil Age	hrs C	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	

Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	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	<1	0	
Lead	ppm	ASTM D5185m	>20	0	0	
Copper	ppm	ASTM D5185m	>20	<1	<1	
Tin	ppm	ASTM D5185m	>20	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
				_		
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	ppm	ASTM D5185m  method	limit/base	<b>o</b> current	0 history1	history2
	ppm		limit/base			
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1	history2
ADDITIVES Boron Barium	ppm	method ASTM D5185m ASTM D5185m	limit/base	current 0 0	history1 0 0	history2
ADDITIVES  Boron  Barium  Molybdenum	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 0	history1 0 0 0	history2 
ADDITIVES  Boron  Barium  Molybdenum  Manganese	ppm ppm ppm	method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D5185m	limit/base	0 0 0 0 -<1	history1 0 0 0 0 0	history2
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium	ppm ppm ppm ppm	method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D5185m	limit/base	current 0 0 0 <	history1  0 0 0 0 0 0	history2
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium	ppm ppm ppm ppm ppm	method  ASTM D5185m	limit/base	current 0 0 0 0 <1 0 0	history1 0 0 0 0 0 0 1	history2
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus	ppm ppm ppm ppm ppm ppm	method  ASTM D5185m	limit/base	current 0 0 0 0 <-1 0 0 18	history1  0 0 0 0 0 1 21	history2
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185m	limit/base	current 0 0 0 0 <-1 0 0 18	history1  0 0 0 0 0 1 21 4	history2

Silicon	ppm	ASTM D5185m	>15	0	<1	
Sodium	ppm	ASTM D5185m		<1	0	
Potassium	ppm	ASTM D5185m	>20	0	<1	
Chlorine Content	ppm	ASTM D5185m		15.2		
Water	%	ASTM D6304	>0.05	0.011		
ppm Water	ppm	ASTM D6304	>500	111.4		
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>320	<b>1307</b>	<b>△</b> 1095	
Particles >6µm		ASTM D7647	>80	<b>A</b> 370	<b>494</b>	
Particles >14µm		ASTM D7647	>10	9	<u>^</u> 76	
Particles >21µm		ASTM D7647	>3	3	<u>^</u> 23	
Particles >38µm		ASTM D7647	>3	0	1	
Particles >71μm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>15/13/10	<b>18/16/10</b>	<b>▲</b> 17/16/13	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2



Acid Number (AN)



## **OIL ANALYSIS REPORT**

