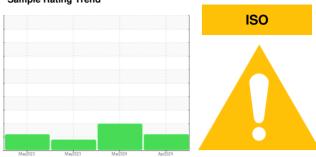


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

BLUE ORGIN GEEX G2 HPU

Hydraulic System

RADCOLUBE FR282 (--- 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.

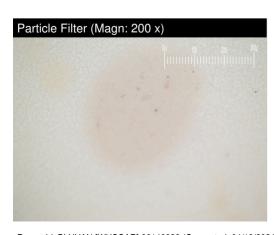
Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PH0003051	PH0003053	WC05852425
Sample Date		Client Info		09 Apr 2024	22 Mar 2024	14 May 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	<1	0
Chromium	ppm	ASTM D5185m		<1	<1	0
Nickel	ppm	ASTM D5185m	>20	<1	<1	0
Titanium	ppm	ASTM D5185m	7 20	<1	<1	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	1	2	<1
Lead	ppm	ASTM D5185m	>20	1	<1	0
Copper	ppm	ASTM D5185m		<1	<1	0
Tin	ppm	ASTM D5185m	>20	1	<1	0
Vanadium	ppm	ASTM D5185m	720	<1	<1	0
Cadmium	ppm	ASTM D5185m		1	<1	0
ADDITIVES	1-1-	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		1	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m		7	7	0
Phosphorus	ppm	ASTM D5185m		24	26	12
Zinc	ppm	ASTM D5185m		7	11	0
Sulfur	ppm	ASTM D5185m		0	102	0
			11 11 11			
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	0
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	1	0
Chlorine Content	ppm	ASTM D5185m		0.000	11.6	
Water	%	ASTM D6304		0.019	0.011	
ppm Water	ppm	ASTM D6304	>500	195	112	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>320	2872	▲ 8930	309
Particles >6µm		ASTM D7647	>80	<u> </u>	<u>^</u> 2726	111
Particles >14µm		ASTM D7647	>20	15	<u>^</u> 264	18
Particles >21µm		ASTM D7647	>4	5	<u>▲</u> 77	5
Particles >38μm		ASTM D7647	>3	0	1	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>15/13/11	<u> </u>	2 0/19/15	15/14/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

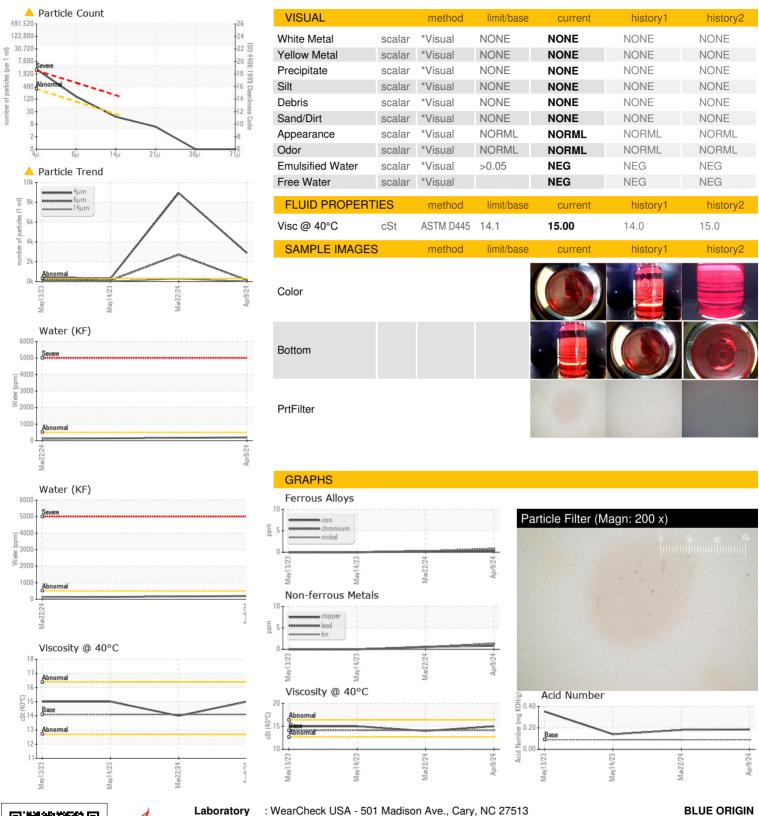


Acid Number (AN) mg KOH/g ASTM D8045 0.09

0.18 Contact/Location: MANUEL HERRERA - BLUVAN



OIL ANALYSIS REPORT







Certificate 12367

Laboratory

Sample No. Lab Number

: PH0003051 : 06146839 Unique Number : 10976917

Received : 11 Apr 2024 **Tested** Diagnosed

: 19 Apr 2024 Test Package : PLANT (Additional Tests: ChlorineXRF, KF, PrtFilter)

: 19 Apr 2024 - Jonathan Hester

US 79855 Contact: MANUEL HERRERA mherrera@blueorigin.com T:

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)

F:

35961 HWY 54

VAN HORN, TX