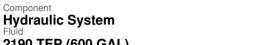
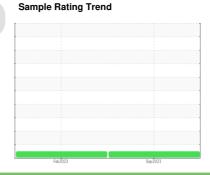


OIL ANALYSIS REPORT

[182298-N2STV4W] 2018 GD EB D431 CENTRAL HPU

2190 TEP (600 GAL)







DIAGNOSIS	
Recommendation	

Resample at the next service interval to monitor.

All component wear rates are normal.

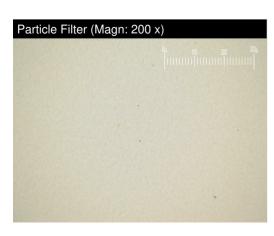
Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

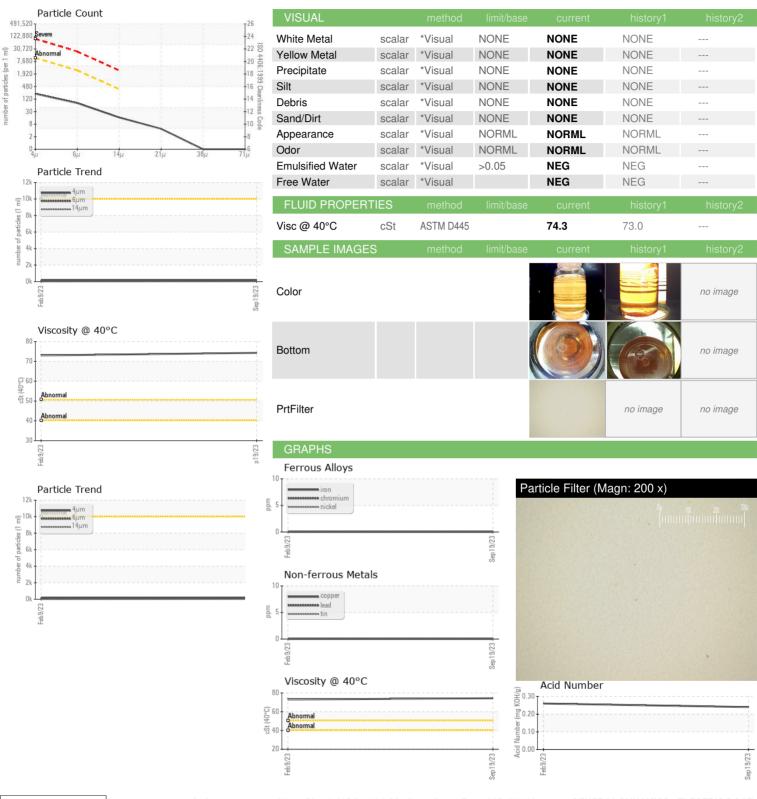
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PH05964586	PH05830196	
Sample Date		Client Info		19 Sep 2023	09 Feb 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		10500	9300	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
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	0	0	
Lead	ppm	ASTM D5185m	>20	0	0	
Copper	ppm	ASTM D5185m	>20	0	0	
Tin	ppm	ASTM D5185m	>20	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
4 B B I T I I I E C						
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	ilmit/base	o current	0	nistory2
	ppm		iimi/base			
Boron		ASTM D5185m	IIMII/base	0	0 0 0	
Boron Barium	ppm	ASTM D5185m ASTM D5185m	IImivoase	0	0	
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	iimii/base	0 0 0 0 3	0 0 0 <1 0	
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	iimii/base	0 0 0	0 0 0 <1	
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	IIMIVoase	0 0 0 0 3 3 56	0 0 0 <1 0 0 57	
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	IIMIVoase	0 0 0 0 3 3	0 0 0 <1 0	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	IIMIVoase	0 0 0 0 3 3 56	0 0 0 <1 0 0 57	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 0 3 3 3 56	0 0 0 <1 0 0 57	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 0 0 3 3 56 8 39	0 0 0 <1 0 0 57 0 0 history1	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base	0 0 0 0 3 3 3 56 8 39	0 0 0 <1 0 0 57 0 0 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base	0 0 0 0 3 3 3 56 8 39	0 0 0 <1 0 0 57 0 0 history1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm	ASTM D5185m	limit/base	0 0 0 0 3 3 56 8 39 current	0 0 0 0 <1 0 0 57 0 0 history1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm	ASTM D5185m	limit/base >15 >20	0 0 0 0 3 3 3 56 8 39 current 0 0	0 0 0 <1 0 0 57 0 0 history1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm	ASTM D5185m	limit/base >15 >20 limit/base	0 0 0 0 3 3 3 56 8 39 current 0 0	0 0 0 <1 0 0 57 0 0 history1 0	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm	ASTM D5185m	limit/base >15 >20 limit/base >10000	0 0 0 0 3 3 3 56 8 39 current 0 0 0	0 0 0 <1 0 0 57 0 0 history1 0 0 history1 203	history2 history2





OIL ANALYSIS REPORT







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

: PH05964586 : 05964586

: 10671137

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

Diagnosed Diagnostician

: 29 Sep 2023 : 05 Oct 2023 : Jonathan Hester

Test Package : PLANT (Additional Tests: PrtFilter) Certificate L2367 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)

GENERAL DYNAMICS - ELECTRIC BOAT

75 EASTERN POINT RD GROTON, CT US 06340

Contact: GENE CHAPMAN gchapman@gdeb.com

T: (860)433-4573

F: