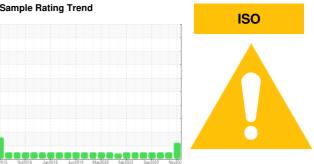


PROBLEM SUMMARY

Sample Rating Trend

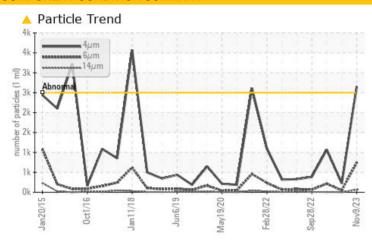


FEED WATER PUMP B

Component Turbine

SHELL TURBO T 32 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ATTENTION	NORMAL	NORMAL				
Particles >4µm	ASTM D7647	>2500	<u> </u>	222	1071				
Particles >6µm	ASTM D7647	>640	~ 745	49	214				
Oil Cleanliness	ISO 4406 (c)	>18/16/13	19/17/13	15/13/9	17/15/10				

Customer Id: NRGDOV Sample No.: USP255348 Lab Number: 06006382 Test Package: IND 2



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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

25 Jul 2023 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



13 Apr 2023 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



28 Sep 2022 Diag: Doug Bogart

NORMAL



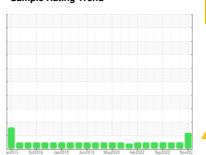
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



FEED WATER PUMP B

Component

Turbine

SHELL TURBO T 32 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

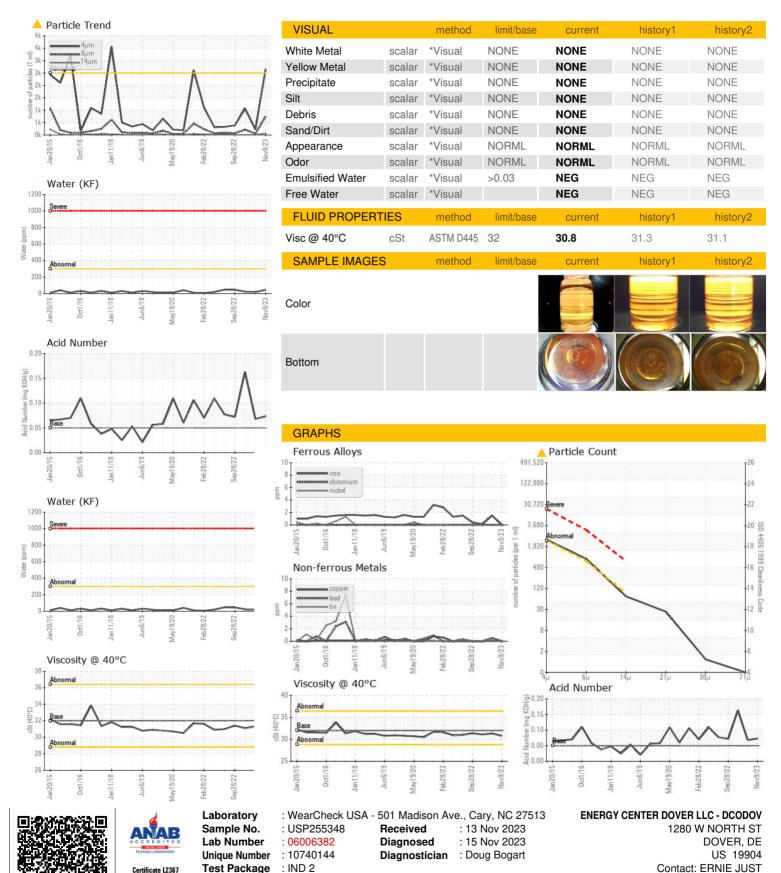
Fluid Condition

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

m2015 0c2016 Jan2019 Jan2019 May2020 Feb2022 Sep2022 Nov2012									
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		USP255348	USP255472	USP249788			
Sample Date		Client Info		09 Nov 2023	25 Jul 2023	13 Apr 2023			
Machine Age	mths	Client Info		0	0	0			
Oil Age	mths	Client Info		0	0	0			
Oil Changed		Client Info		N/A	N/A	N/A			
Sample Status				ATTENTION	NORMAL	NORMAL			
WEAR METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>15	0	2	<1			
Chromium	ppm	ASTM D5185m	>4	0	0	0			
Nickel	ppm	ASTM D5185m	>2	0	0	0			
Titanium	ppm	ASTM D5185m		0	0	0			
Silver	ppm	ASTM D5185m		0	0	0			
Aluminum	ppm	ASTM D5185m	>10	0	0	<1			
Lead	ppm	ASTM D5185m		0	<1	0			
Copper	ppm	ASTM D5185m		0	<1	0			
Tin	ppm	ASTM D5185m	>5	0	0	0			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m		0	0	<1			
Barium	ppm	ASTM D5185m		0	1	0			
Molybdenum	ppm	ASTM D5185m		0	<1	<1			
Manganese	ppm	ASTM D5185m		0	0	<1			
Magnesium	ppm	ASTM D5185m		0	2	0			
Calcium	ppm	ASTM D5185m		12	14	9			
Phosphorus	ppm	ASTM D5185m		5	15	12			
Zinc	ppm	ASTM D5185m		0	10	10			
Sulfur	ppm	ASTM D5185m		208	255	0			
CONTAMINANTS		method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>15	0	0	0			
Sodium	ppm	ASTM D5185m		1	0	0			
Potassium	ppm	ASTM D5185m		0	1	0			
Water	%	ASTM D6304	>0.03	0.004	0.002	0.002			
ppm Water	ppm	ASTM D6304	>300	42.8	16.6	21.9			
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2			
Particles >4µm		ASTM D7647	>2500	2655	222	1071			
Particles >6µm		ASTM D7647	>640	<u>^</u> 745	49	214			
Particles >14μm		ASTM D7647	>80	63	4	7			
Particles >21µm		ASTM D7647	>20	23	1	2			
Particles >38μm		ASTM D7647	>4	1	0	0			
Particles >71μm		ASTM D7647		0	0	0			
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<u> </u>	15/13/9	17/15/10			
FLUID DEGRADA	TION	method	limit/base	current	history1	history2			
Acid Number (AN)	mg KOH/g	ASTM D8045	.05	0.073	0.068	0.163			



OIL ANALYSIS REPORT



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)

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