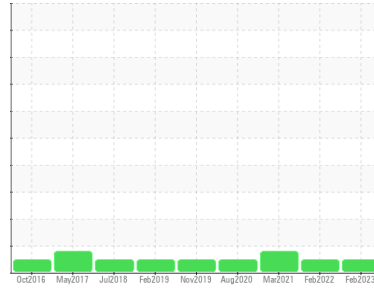




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**8**  
 Machine Id  
**WTG-804**  
 Component  
**Hydraulic System**  
 Fluid  
**SHELL TELLUS 32 (300 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0804536</b>	WC05504448	WC0547262
Sample Date	Client Info		<b>28 Feb 2023</b>	08 Feb 2022	15 Mar 2021
Machine Age	mths	Client Info	<b>0</b>	30	0
Oil Age	mths	Client Info	<b>0</b>	5	0
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	SEVERE

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>17</b>	12	---
Iron	ppm	ASTM D5185m >20	<b>4</b>	2	2
Chromium	ppm	ASTM D5185m >20	<b>9</b>	7	6
Nickel	ppm	ASTM D5185m >20	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	0
Lead	ppm	ASTM D5185m >20	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m >20	<b>2</b>	3	3
Tin	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	0
Antimony	ppm	ASTM D5185m	<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m 11	<b>13</b>	7	6
Calcium	ppm	ASTM D5185m 35	<b>19</b>	20	23
Phosphorus	ppm	ASTM D5185m 259	<b>276</b>	280	279
Zinc	ppm	ASTM D5185m 277	<b>258</b>	244	267
Sulfur	ppm	ASTM D5185m 1865	<b>5723</b>	4382	4672

## CONTAMINANTS

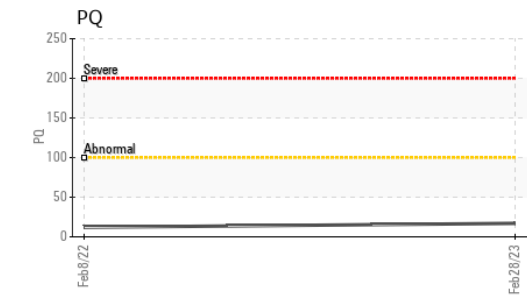
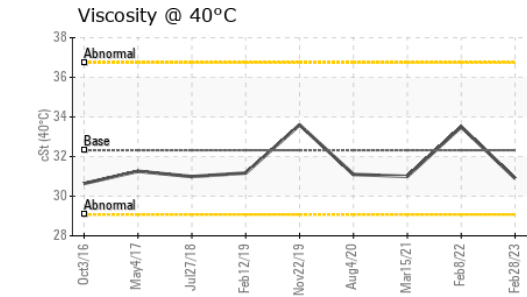
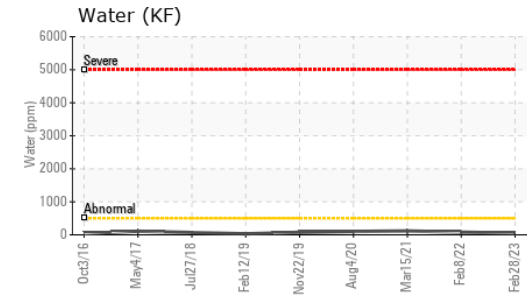
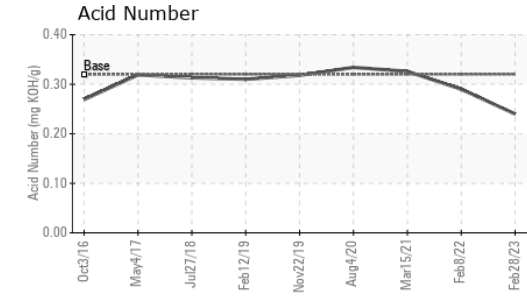
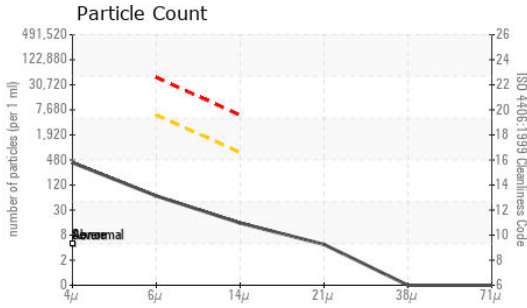
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>0</b>	0	<1
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	<1
Water	%	ASTM D6304 >0.05	<b>0.005</b>	0.007	0.011
ppm Water	ppm	ASTM D6304 >500	<b>55.1</b>	79.4	118.0

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>362</b>	1329	5330
Particles >6µm	ASTM D7647	>5000	<b>58</b>	297	1610
Particles >14µm	ASTM D7647	>640	<b>13</b>	25	121
Particles >21µm	ASTM D7647	>160	<b>4</b>	8	39
Particles >38µm	ASTM D7647	>40	<b>0</b>	2	4
Particles >71µm	ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>--/19/16	<b>16/13/11</b>	18/15/12	20/18/14



# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.32	<b>0.24</b>	0.29	0.326

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32.32	<b>30.9</b>	33.5	31.0

SAMPLE IMAGES		method	limit/base	current	history1	history2
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Color			
Bottom			
MPC	no image	no image	



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0804536 **Received** : 26 May 2023  
**Lab Number** : 05857892 **Diagnosed** : 30 May 2023  
**Unique Number** : 10492357 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, PQ )

**ENERGIA EOLICA**  
 STA ANA KM25 CARRETERA AL SUR, A 1KM DEL CRUCE  
 FRANCISCO MORAZAN, ZZ  
 HN  
 Contact: SANTOS DEL CID  
 sdelcid@dencmi.com

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)

T: x:  
 F: x: