

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Area **13** Machine Id **WTG-1302** Component **Hydraulic System** Fluid **SHELL TELLUS 32 (300 LTR)** 

#### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

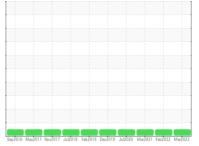
All component wear rates are normal.

#### Contamination

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

## Fluid Condition

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





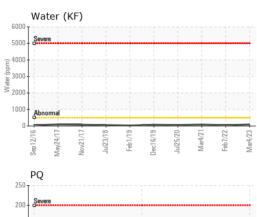
SAMPLE INFORM		method	limit/base	current	history1	history2
	ATION		in in base			
Sample Number		Client Info		WC0804553	WC05504465	WC0547203
Sample Date	and the second	Client Info		04 Mar 2023	07 Feb 2022	04 Mar 2021
Machine Age	mths	Client Info		0	0	120
Oil Age	mths	Client Info		0	5	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		16	14	
Iron	ppm	ASTM D5185m	>20	8	5	5
Chromium	ppm	ASTM D5185m	>20	4	3	3
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	2	3	3
Tin	ppm	ASTM D5185m	>20	<1	0	<1
Antimony	ppm	ASTM D5185m				4
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	1
Barium	ppm	ASTM D5185m		0	0	3
Molybdenum	ppm	ASTM D5185m		0	0	1
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	11	19	11	13
Calcium	ppm	ASTM D5185m	35	22	27	49
Phosphorus	ppm	ASTM D5185m	259	276	301	297
Zinc	ppm	ASTM D5185m	277	303	307	325
Sulfur	ppm	ASTM D5185m	1865	2079	1877	2115
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	<1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>0.05	0.009	0.005	0.009
ppm Water	ppm	ASTM D6304	>500	94.8	55.0	91.2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		393	1628	8721
Particles >6µm		ASTM D7647	>5000	33	345	2702
Particles >14µm		ASTM D7647	>640	5	39	154
Particles >21µm		ASTM D7647		2	12	53
Particles >38µm		ASTM D7647	>40	0	1	3
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>/19/16	16/12/10	18/16/12	20/19/14
		2				

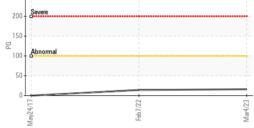


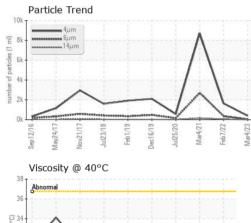
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Color

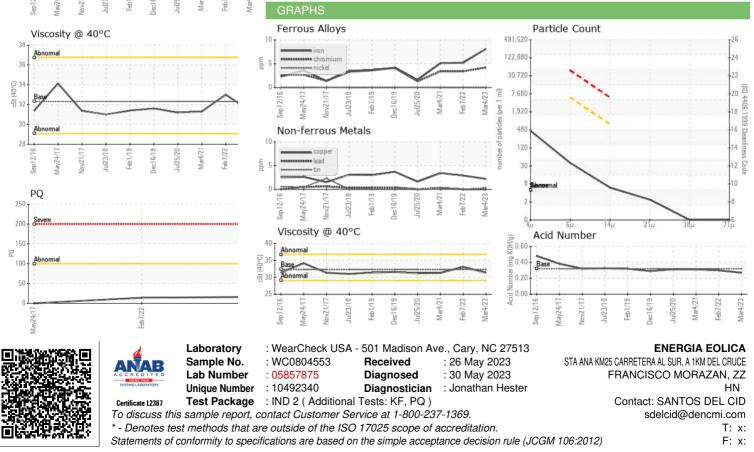
Bottom







FLUID DEGRADATION		method				history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.32	0.27	0.30	0.312
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32.32	31.4	33.0	31.3
SAMPLE IMAGES	3	method	limit/base	current	history1	history2



Contact/Location: SANTOS DEL CID - ENEFRA