

OIL ANALYSIS REPORT

Area WTG-306 (S/N 4836489-0020-1) Component

Hydraulic System

SHELL TELLUS 32 (300 LTR)

Recommendation

Resample at the next service interval to monitor.

Wear

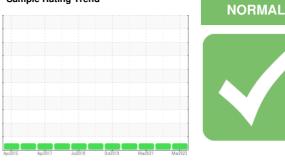
All component wear rates are normal.

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.



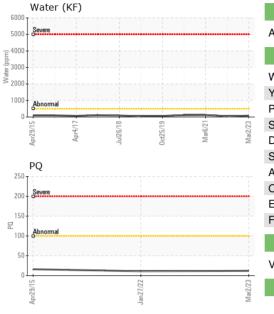
Sample Rating Trend

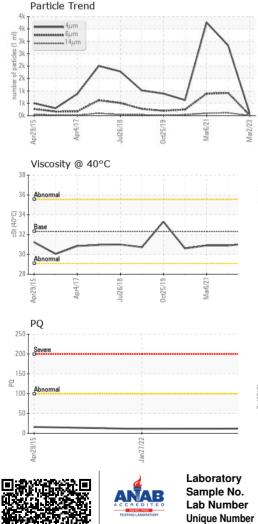


SAMPLE INFORM		method	limit/base	current	history1	history2
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Sample Number		Client Info		WC0804433	WC05504425	WC0547166
Sample Date		Client Info		02 Mar 2023	27 Jan 2022	06 Mar 2021
Machine Age	mths	Client Info		0	77	120
Oil Age	mths	Client Info		6	5	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		12	11	
Iron	ppm	ASTM D5185m	>20	4	2	4
Chromium	ppm	ASTM D5185m	>20	7	7	7
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
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	<1	2	2
Tin	ppm	ASTM D5185m	>20	0	0	<1
Antimony	ppm	ASTM D5185m				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	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	11	24	9	6
Calcium	ppm	ASTM D5185m	35	19	26	24
Phosphorus	ppm	ASTM D5185m	259	276	281	261
Zinc	ppm	ASTM D5185m	277	286	274	248
Sulfur	ppm	ASTM D5185m	1865	3210	3138	4000
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	<1
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>0.05	0.008	0.004	0.012
ppm Water	ppm	ASTM D6304	>500	80.6	49.3	122.2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		98	2834	3759
Particles >6µm		ASTM D7647	>5000	22	916	884
Particles >14µm		ASTM D7647	>640	3	111	95
Particles >21µm		ASTM D7647	>160	1	32	33
Particles >38µm		ASTM D7647	>40	0	7	2
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/19/16	14/12/9	19/17/14	19/17/14
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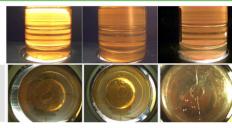


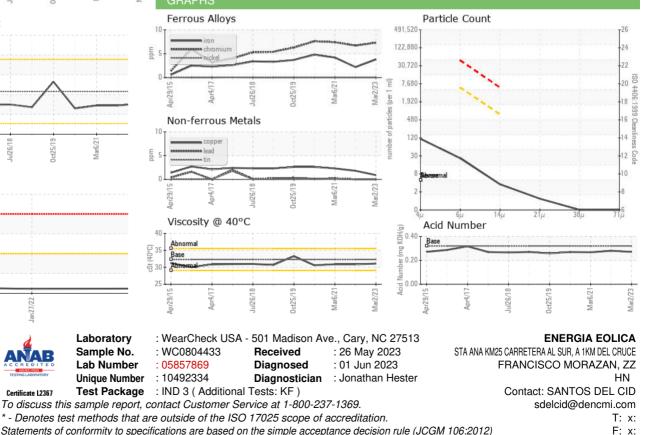


FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.32	0.27	0.28	0.267
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32.32	31.1	30.9	30.9
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color

Bottom





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

Contact/Location: SANTOS DEL CID - ENEFRA