

OIL ANALYSIS REPORT

Sample Rating Trend





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.

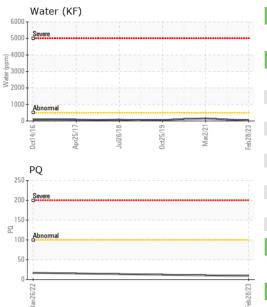
Fluid Condition

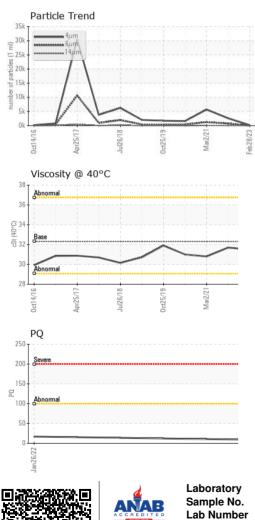
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0804543	WC05504475	WC0547150
Sample Date		Client Info		28 Feb 2023	26 Jan 2022	02 Mar 2021
Machine Age	mths	Client Info		0	77	120
Oil Age	mths	Client Info		0	0	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		9	17	
Iron	ppm	ASTM D5185m	>20	4	2	3
Chromium	ppm	ASTM D5185m	>20	6	5	6
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	3	4	5
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
	ppin			-	-	-
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	25	17	6
Calcium	ppm	ASTM D5185m	35	18	22	22
Phosphorus	ppm	ASTM D5185m	259	277	296	258
Zinc	ppm	ASTM D5185m	~ = =			
	1-1-	ASTIVI DOTODITI	277	287	284	248
Sulfur	ppm	ASTM D5185m	1865	287 3248	284 2946	248 3499
Sulfur	ppm			-		
	ppm	ASTM D5185m	1865	3248	2946	3499
CONTAMINANTS	ppm	ASTM D5185m method	1865 limit/base	3248 current	2946 history1	3499 history2
CONTAMINANTS Silicon	ppm ppm	ASTM D5185m method ASTM D5185m	1865 limit/base	3248 current <1	2946 history1 0	3499 history2 <1
CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	1865 limit/base >15	3248 current <1 1	2946 history1 0 0	3499 history2 <1 0
CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	1865 limit/base >15 >20	3248 current <1 1 <1	2946 history1 0 0 0	3499 history2 <1 0 <1
CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm % ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	1865 limit/base >15 >20 >0.05	3248 current <1 1 <1 0.005	2946 history1 0 0 0 0 0.008	3499 history2 <1 0 <1 0.015
CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm % ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	1865 limit/base >15 >20 >0.05 >500	3248 current <1 1 <1 0.005 51.7	2946 history1 0 0 0 0 0.008 85.0	3499 history2 <1 0 <1 0.015 155.2
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm ppm ppm ppm % ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method	1865 limit/base >15 >20 >0.05 >500 limit/base	3248 current <1 1 <1 0.005 51.7 current	2946 history1 0 0 0 0.008 85.0 history1	3499 history2 <1 0 <1 0.015 155.2 history2
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm % ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647	1865 limit/base >15 >20 >0.05 >500 limit/base	3248 current <1 1 <1 0.005 51.7 current 189	2946 history1 0 0 0 0.008 85.0 history1 2607	3499 history2 <1 0 <1 0.015 155.2 history2 5694
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm % ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	1865 imit/base >15 >20 >0.05 >500 imit/base >5000 >640	3248 current <1 1 <1 0.005 51.7 current 189 30	2946 history1 0 0 0 0.008 85.0 history1 2607 748 70	3499 history2 <1 0 <1 0.015 155.2 history2 5694 1253 84
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	1865 imit/base >15 >20 >0.05 >500 imit/base >5000 >640 >160	3248 current <1 1 <1 0.005 51.7 current 189 30 4 1	2946 history1 0 0 0 0.008 85.0 history1 2607 748 70 19	3499 history2 <1 0 <1 0.015 155.2 history2 5694 1253 84 26
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	1865 imit/base >15 >20 >0.05 >500 imit/base \$5000 >640 >160 >40	3248 current <1 1 <1 0.005 51.7 current 189 30 4 1 0	2946 history1 0 0 0 0.008 85.0 history1 2607 748 70 19 3	3499 history2 <1 0 <1 0.015 155.2 history2 5694 1253 84 26 1
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	1865 imit/base >15 >20 >0.05 >500 imit/base \$5000 >640 >160 >40	3248 current <1 1 <1 0.005 51.7 current 189 30 4 1	2946 history1 0 0 0 0.008 85.0 history1 2607 748 70 19	3499 history2 <1 0 <1 0.015 155.2 history2 5694 1253 84 26



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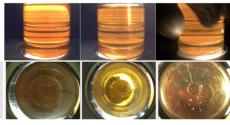


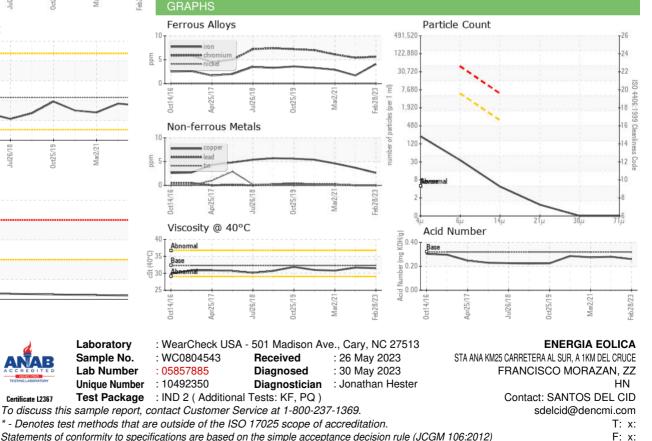


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.32	0.26	0.28	0.275
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	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 PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32.32	31.5	31.7	30.8
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