

OIL ANALYSIS REPORT

Machine Id

Component Screw Compressor

Fluid TULCO LUBSOIL LPG WI 100 (150 GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high 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.

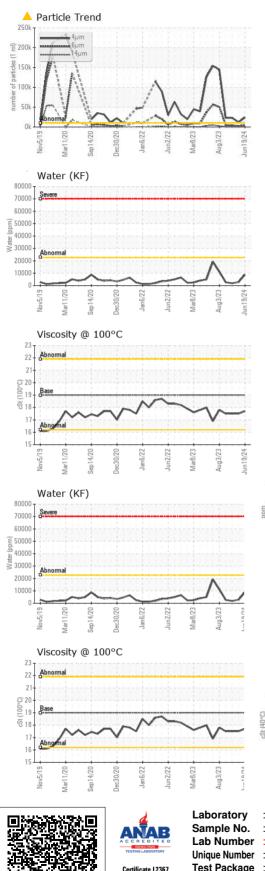


SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO606219750	TO60000926	TO60000932
Sample Date		Client Info		19 Jun 2024	03 Apr 2024	10 Jan 2024
Machine Age	wks	Client Info		0	0	0
Oil Age	wks	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>60	0	<1	1
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>5	0	6	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m		0	<1	0
Tin	ppm		>15	0	<1	1
Vanadium	ppm	ASTM D5185m	-	0	1	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	0	<1	<1	0
Calcium	ppm	ASTM D5185m		0	4	0
Phosphorus	ppm	ASTM D5185m	0	19	18	2
Zinc	ppm	ASTM D5185m	0	0	1	0
Sulfur	ppm	ASTM D5185m	0	2219	0	793
CONTAMINANTS	i	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	29	0	20
Sodium	ppm	ASTM D5185m		0	17	0
Potassium	ppm	ASTM D5185m	>20	3	4	<1
Water	%	ASTM D6304	>2.26	0.875	0.281	0.185
ppm Water	ppm	ASTM D6304		8753	2816	1859
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	A 23895	11853	▲ 23050
Particles >6µm		ASTM D7647	>2500	<u> </u>	2125	3924
Particles >14µm		ASTM D7647	>320	138	176	163
Particles >21µm		ASTM D7647	>80	12	48	33
Particles >38µm		ASTM D7647	>20	2	2	1
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	A 22/19/14	21/18/15	▲ 22/19/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.83	1.15	0.39

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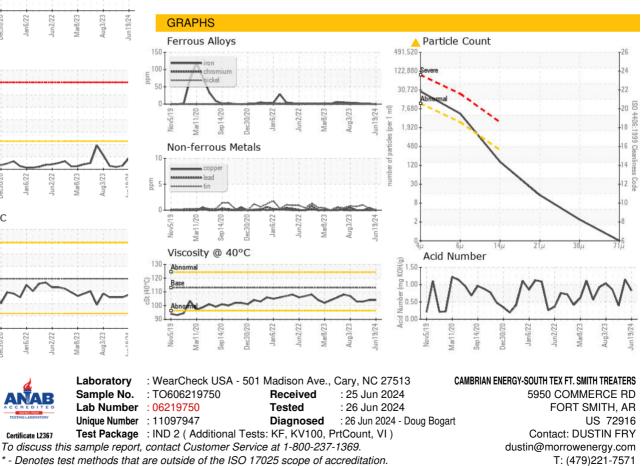


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VISUAL		method	limit/base	current	history1	history2
VISUAL		method	IIIIII/Dase	current	history i	TIIStOF y2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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	>2.26	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
		method	initio base	Current	Thistory I	Thistoryz
Visc @ 40°C	cSt	ASTM D445	113	104	104	103
Visc @ 100°C	cSt	ASTM D445	19	17.7	17.5	17.5
Viscosity Index (VI)	Scale	ASTM D2270	189	188	185	187
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				. 0		

Bottom



* - 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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