

Machine Id MYCOM A

Component Compressor

250k

200k

(m l) saticles (l m) 150k

50k

0k

Mar26/18

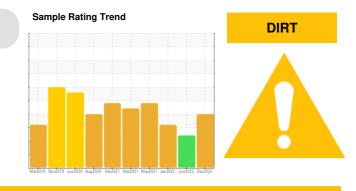
# **PROBLEM SUMMARY**

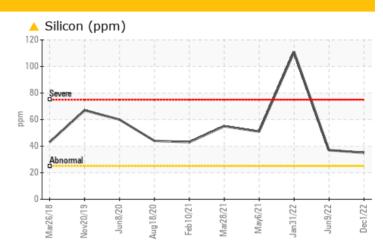
Dec1/22 -

Jan31/22

May6/2

Jun9/22





## RECOMMENDATION

Vov20/19

Resample at the next service interval to monitor.

Jun8/20

Aug18/20

Feb10/21

Mar28/2

TULCO LUBSOIL LPG WI 100 (--- GAL)

COMPONENT CONDITION SUMMARY

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4111

Particle Trend

PROBLEMATIC TEST RESULTS						
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Silicon	ppm	ASTM D5185m	>25	<u> </u>	<b>4</b> 37	🔺 111
Particles >4µm		ASTM D7647	>10000	🔺 100713	9886	63348
Particles >6µm		ASTM D7647	>1300	<u> </u>	🔺 1661	🔺 16426
Particles >14µm		ASTM D7647	>320	<b>4038</b>	34	<b>)</b> 994
Particles >21µm		ASTM D7647	>80	<u> </u>	9	<u> </u>
Particles >38µm		ASTM D7647	>20	<b>A</b> 76	0	4
Oil Cleanliness		ISO 4406 (c)	>20/17/15	<u> </u>	🔺 20/18/12	🔺 23/21/17

Customer Id: MELMELTX Sample No.: TO50000123 Lab Number: 05708432 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

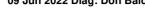
To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

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- ago		<u> </u>	•

There are no recommended actions for this sample.

#### **HISTORICAL DIAGNOSIS**

#### 09 Jun 2022 Diag: Don Baldridge



No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid.









The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. Moderate concentration of visible metal present. All component wear rates are normal. There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

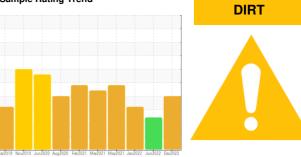




Machine Id MYCOM A

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Component Compressor Fluid TULCO LUBSOIL LPG WI 100 (--- GAL)

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

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

## Fluid Condition

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

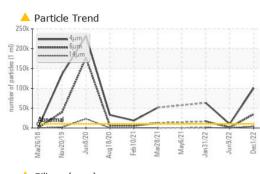
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO50000123	TO50000121	TO5000086
Sample Date		Client Info		01 Dec 2022	09 Jun 2022	31 Jan 2022
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		Filtered	Filtered	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	<1
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m		0	<1	2
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	0	<1	<1
Lead	ppm	ASTM D5185m	>25	0	<1	<1
Copper	ppm	ASTM D5185m	>50	0	0	<1
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	0	2	<1	<1
Calcium	ppm	ASTM D5185m		0	0	<1
Phosphorus	ppm	ASTM D5185m	0	38	17	14
Zinc	ppm	ASTM D5185m	0	5	0	0
Sulfur	ppm	ASTM D5185m	0	1607	2656	2309
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>4</b> 35	<b>A</b> 37	<b>1</b> 11
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	2
Water	%	ASTM D6304	>2.26	0.172	0.963	0.357
ppm Water	ppm	ASTM D6304	>22600	1725.0	9630	3578.2
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>A</b> 100713	9886	▲ 63348
Particles >6µm		ASTM D7647	>1300	<u> </u>	<b>1</b> 661	16426
Particles >14µm		ASTM D7647	>320	<u> </u>	34	<b>9</b> 94
Particles >21µm		ASTM D7647	>80	<u> </u>	9	<u> </u>
Particles >38µm		ASTM D7647	>20	<mark>/</mark> 76	0	4
Particles >71µm		ASTM D7647	>4	4	0	0
Oil Cleanliness		ISO 4406 (c)	>20/17/15	<b>A</b> 24/22/19	▲ 20/18/12	▲ 23/21/17
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.79	0.401	0.705
:51:12) Rev: 1	9					

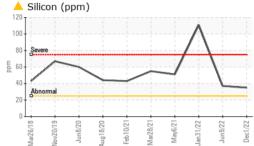
Report Id: MELMELTX [WUSCAR] 05708432 (Generated: 07/19/2023 14:51:12) Rev: 1

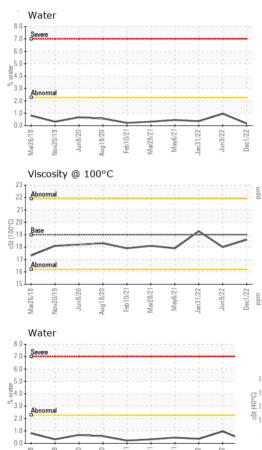
Contact/Location: BILL PALMER - MELMELTX



# **OIL ANALYSIS REPORT**

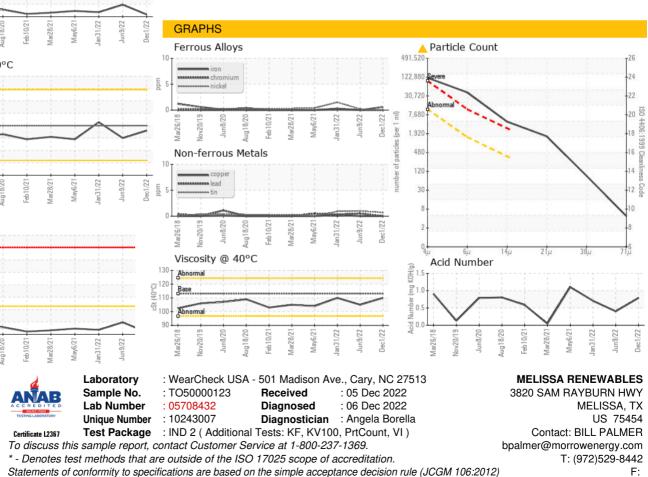






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	VLITE	VLITE
Sand/Dirt	scalar	*Visual	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	113	110	105	110
Visc @ 100°C	cSt	ASTM D445	19	18.6	18.0	19.28
Viscosity Index (VI)	Scale	ASTM D2270	189	189	190	197
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						

Bottom



Contact/Location: BILL PALMER - MELMELTX