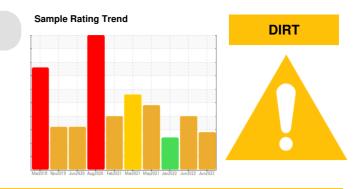
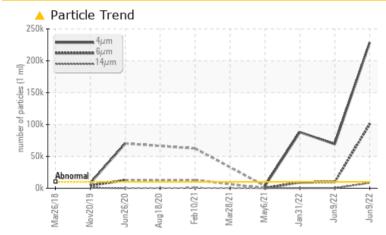


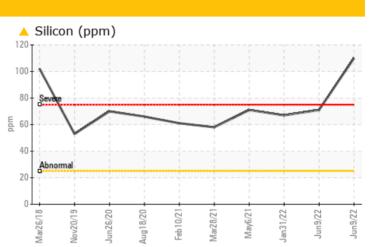
## **PROBLEM SUMMARY**



### VILTER A Component Compressor TULCO LUBSOIL LPG WI 100 (--- GAL)

### COMPONENT CONDITION SUMMARY





#### RECOMMENDATION

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.

#### **PROBLEMATIC TEST RESULTS** Sample Status ABNORMAL ABNORMAL

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Silicon	ppm	ASTM D5185m	>25	<u> </u>	<b>1</b> 10	<b>6</b> 7
Particles >4µm		ASTM D7647	>10000	<b>6</b> 9132	<u> </u>	▲ 88050
Particles >6µm		ASTM D7647	>2500	<u> </u>	▲ 100747	<b>9274</b>
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>A</b> 23/20/15	▲ 25/24/20	🔺 24/20/15

Customer Id: MELMELTX Sample No.: TO50000129 Lab Number: 05569216 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

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

#### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

#### **HISTORICAL DIAGNOSIS**

#### 09 Jun 2022 Diag: Jonathan Hester



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 high 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.

#### 31 Jan 2022 Diag: Doug Bogart

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 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.

#### 06 May 2021 Diag: Jonathan Hester



The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.The iron level is abnormal. Elemental level of silicon (Si) above normal indicating ingress of seal material. There is a moderate concentration of water present in the oil. The amount and size of particulates present in the system are acceptable. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.



view report

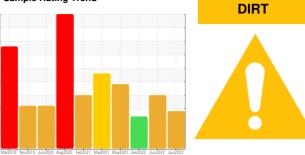
view report





### **OIL ANALYSIS REPORT**

Sample Rating Trend



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

#### DIAGNOSIS

Machine Id

#### Recommendation

**VILTER A** 

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.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

#### Fluid Condition

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

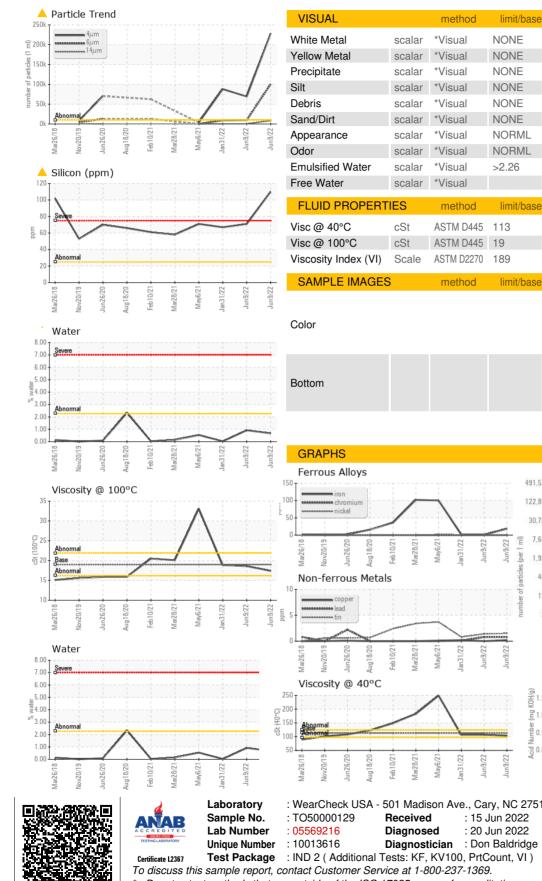
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO50000129	TO50000128	TO50000084
Sample Date		Client Info		09 Jun 2022	09 Jun 2022	31 Jan 2022
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		Filtered	Filtered	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	1	18	1
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m	210	<1	<1	1
Titanium	ppm	ASTM D5185m		0	0	0
Silver		ASTM D5185m		0	0	<1
	ppm		. 05			
Aluminum	ppm	ASTM D5185m		<1	<1	<1
Lead	ppm	ASTM D5185m	>25	<1	<1	<1
Copper	ppm	ASTM D5185m		0	<1	<1
Tin	ppm	ASTM D5185m	>15	1	2	<1
Antimony	ppm	ASTM D5185m				1
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	2	3	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1	<1
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	0	1	10	<1
Calcium	ppm	ASTM D5185m		<1	13	0
Phosphorus	ppm	ASTM D5185m	0	6	7	11
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	0	4058	6757	3408
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185m	>25	▲ 71	▲ 110	▲ 67
	ppm		>20			
Sodium	ppm	ASTM D5185m	00	0	1	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	2
Water	%	ASTM D6304		0.667	0.919	0.024
ppm Water	ppm	ASTM D6304	>22600	6670	9190	245.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<u> </u>	<b>A</b> 228588	▲ 88050
Particles >6µm		ASTM D7647	>2500	<u> </u>	▲ 100747	<u> </u>
Particles >14µm		ASTM D7647	>320	256	<u> </u>	177
Particles >21µm		ASTM D7647	>80	47	<b>A</b> 2126	39
Particles >38µm		ASTM D7647	>20	1	<b>A</b> 36	2
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>23/20/15</b>	▲ 25/24/20	▲ 24/20/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.581	0.703	1.472
(17·42) Rov: 1	0 - 0	Contact/Location: BILL PALMER - MELMEL TX				

Report Id: MELMELTX [WUSCAR] 05569216 (Generated: 07/19/2023 15:17:42) Rev: 1

Contact/Location: BILL PALMER - MELMELTX



# **OIL ANALYSIS REPORT**



\* - 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)

3820 SAM RAYBURN HWY MELISSA, TX US 75454 Contact: BILL PALMER bpalmer@morrowenergy.com T: (972)529-8442 F:

Report Id: MELMELTX [WUSCAR] 05569216 (Generated: 07/19/2023 15:17:42) Rev: 1

Contact/Location: BILL PALMER - MELMELTX

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history1 history2 current LIGHT NONE LIGHT VLITE NONE NONE NONE NONE NORML NORML NORML NORML NORML NORML NORML NORML NEG NFG NEG NEG NEG NEG limit/base curren history history2 104 107 107 17.4 18.6 18.86 184 194 197 limit/base current history1 history2

