

## **PROBLEM SUMMARY**

## Sample Rating Trend





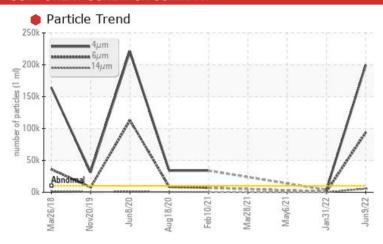
# MYCOM B

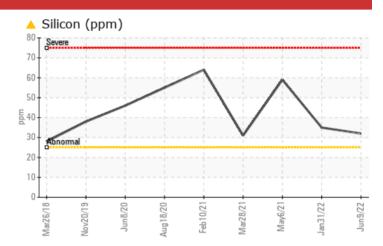
Component

Compressor

TULCO LUBSOIL LPG WI 100 (--- GAL)

## COMPONENT CONDITION SUMMARY





## RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS												
Sample Status				SEVERE	NORMAL	ABNORMAL						
Silicon	ppm	ASTM D5185m	>25	<b>△</b> 32	35	<b>△</b> 59						
Particles >4µm		ASTM D7647	>10000	<b>199741</b>	3738							
Particles >6µm		ASTM D7647	>1300	93775	1019							
Particles >14µm		ASTM D7647	>320	<b>5545</b>	86							
Particles >21µm		ASTM D7647	>80	<b>820</b>	17							
Oil Cleanliness		ISO 4406 (c)	>20/17/15	<b>25/24/20</b>	19/17/14							

**Customer Id: MELMELTX** Sample No.: TO50000130 Lab Number: 05569213 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

#### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

## HISTORICAL DIAGNOSIS

## 31 Jan 2022 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



## 06 May 2021 Diag: Jonathan Hester

WATER



We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. 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. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. There is a moderate concentration of water present in the oil. The AN level is acceptable for this fluid.



#### WATER



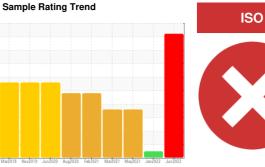
28 Mar 2021 Diag: Jonathan Hester

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. There is a high concentration of water present in the oil. Moderate concentration of visible dirt/debris 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.





## **OIL ANALYSIS REPORT**



# **MYCOM B**

Component

Compressor

TULCO LUBSOIL LPG WI 100 (--- GAL)

## DIAGNOSIS

#### Recommendation

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 particulates 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 acceptable for the time in service.

		Mar2018 No	2019 Jun2020 Aug2020	Feb 2021 Mar 2021 May 2021 Jan 20	22 Jun 2022	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO50000130	TO50000085	TO50000087
Sample Date		Client Info		09 Jun 2022	31 Jan 2022	06 May 2021
Machine Age	wks	Client Info		0	0	0
Oil Age	wks	Client Info		0	0	0
Oil Changed		Client Info		Filtered	N/A	N/A
Sample Status				SEVERE	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		<1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	0
Lead	ppm	ASTM D5185m	>25	<1	<1	3
Copper	ppm	ASTM D5185m	>50	<1	<1	0
Tin	ppm	ASTM D5185m	>15	1	<1	0
Antimony	ppm	ASTM D5185m			<1	6
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	3	3	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	0	2	<1	0
Calcium	ppm	ASTM D5185m		3	4	
		/ TO THE DO TOOM		J	<1	0
Phosphorus		ASTM D5185m	0	27	17	0
	ppm		0	_		
Phosphorus		ASTM D5185m		27	17	0
Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m	0	27 0	17 0	0
Phosphorus Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0	27 0 2528	17 0 946	0 0 1317
Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	0 0 limit/base	27 0 2528 current	17 0 946 history1	0 0 1317 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	0 0 limit/base	27 0 2528 current	17 0 946 history1	0 0 1317 history2 ▲ 59
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m ASTM D5185m	0 0 limit/base >25	27 0 2528 current 32 0	17 0 946 history1 35 0	0 0 1317 history2 ▲ 59 <1
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m ASTM D5185m ASTM D5185m	0 0 limit/base >25 >20	27 0 2528 current 32 0 <1	17 0 946 history1 35 0	0 0 1317 history2 ▲ 59 <1 0
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	0 0 limit/base >25 >20 >2.26	27 0 2528 current 32 0 <1 0.297	17 0 946 history1 35 0 1 0.685	0 0 1317 history2 \$\triangle 59 <1 0 \$\triangle 0.608
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	0 0 limit/base >25 >20 >2.26 >22600	27 0 2528 current ▲ 32 0 <1 0.297 2971.3	17 0 946 history1 35 0 1 0.685 6851.6	0 0 1317 history2 ▲ 59 <1 0 • 0.608 • 6080
Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium Water ppm Water  FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	0 0 limit/base >25 >20 >2.26 >22600 limit/base >10000	27 0 2528 current ▲ 32 0 <1 0.297 2971.3 current	17 0 946 history1 35 0 1 0.685 6851.6 history1	0 0 1317 history2 ▲ 59 <1 0 ▲ 0.608 ▲ 6080 history2
Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium Water ppm Water  FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m  method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304  method ASTM D7647	0 0 limit/base >25 >20 >2.26 >22600 limit/base >10000	27 0 2528 current ▲ 32 0 <1 0.297 2971.3 current	17 0 946 history1 35 0 1 0.685 6851.6 history1 3738	0 0 1317 history2 ▲ 59 <1 0 ▲ 0.608 ▲ 6080 history2
Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium Water ppm Water  FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m  method  ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304  method  ASTM D7647 ASTM D7647	0 0 limit/base >25 >20 >2.26 >22600 limit/base >10000 >1300 >320	27 0 2528 current  32 0 <1 0.297 2971.3 current  199741 93775	17 0 946 history1 35 0 1 0.685 6851.6 history1 3738 1019	0 0 1317 history2 ▲ 59 <1 0 • 0.608 • 6080 history2
Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium Water ppm Water  FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m  method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304  method ASTM D7647 ASTM D7647 ASTM D7647	0 0 limit/base >25 >20 >2.26 >22600 limit/base >10000 >1300 >320	27 0 2528 current ▲ 32 0 <1 0.297 2971.3 current ● 199741 ● 93775 ● 5545	17 0 946 history1 35 0 1 0.685 6851.6 history1 3738 1019 86	0 0 1317 history2  59 <1 0 0.608 6080 history2
Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium Water ppm Water  FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647	0 0 limit/base >25 >20 >2.26 >22600 limit/base >10000 >1300 >320 >80 >20	27 0 2528  current  32 0 <1 0.297 2971.3  current  199741  93775  5545  820	17 0 946 history1 35 0 1 0.685 6851.6 history1 3738 1019 86 17	0 0 1317 history2 ▲ 59 <1 0
Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium Water ppm Water  FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 Tethod ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	0 0 limit/base >25 >20 >2.26 >22600 limit/base >10000 >1300 >320 >80 >20	27 0 2528  current  32 0 <1 0.297 2971.3  current  199741 93775 5545 820 2	17 0 946 history1 35 0 1 0.685 6851.6 history1 3738 1019 86 17	0 0 1317 history2 ▲ 59 <1 0

Acid Number (AN)

mg KOH/g ASTM D8045

0.338 Contact/Location: BILL PALMER - MELMELTX

0.259

1.349



## **OIL ANALYSIS REPORT**

