

## **PROBLEM SUMMARY**

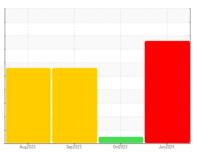
Sample Rating Trend

**DEGRADATION** 

# [TO10002649] SOUTH COMP 21000-50-02 (S/N 1106-5717)

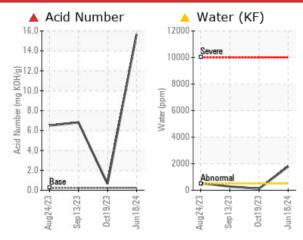
Compressor

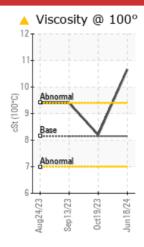
TULCO LUBSOIL SYNTHETIC COMPRESSOR 46 (--- GAL)

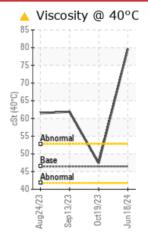


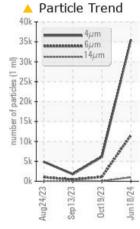


## **COMPONENT CONDITION SUMMARY**









### RECOMMENDATION

We advise that you check for a possible overheat condition. Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	NORMAL	SEVERE		
Water	%	ASTM D6304	>0.05	<b>△</b> 0.178	0.012	0.028		
ppm Water	ppm	ASTM D6304	>500	<b>1786</b>	121.3	281.5		
Particles >6µm		ASTM D7647	>1300	<b>11578</b>	1080	452		
Particles >14μm		ASTM D7647	>80	<u> </u>	61	41		
Particles >21µm		ASTM D7647	>20	<b>228</b>	17	9		
Particles >38μm		ASTM D7647	>4	<u>^</u> 7	1	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>22/21/17</u>	20/17/13	18/16/13		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.236	<b>15.66</b>	0.65	<b>▲</b> 6.82		
Visc @ 40°C	cSt	ASTM D445	46.44	<b>79.69</b>	47.4	<b>△</b> 61.9		
Visc @ 100°C	cSt	ASTM D445	8.15	<b>10.66</b>	8.2	9.4		

Customer Id: WEBSAN Sample No.: TO10003287 Lab Number: 06216231 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@wearcheckusa.com

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

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Fluid			?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.		
Flush System			?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.		
Resample			?	We recommend an early resample to monitor this condition.		
Check For Overheating			?	We advise that you check for a possible overheat condition.		

## HISTORICAL DIAGNOSIS

### 19 Oct 2023 Diag: Don Baldridge

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.



## DEGRADATION



13 Sep 2023 Diag: Doug Bogart

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition. Copper ppm levels are abnormal. Iron ppm levels are marginal. Zinc noted. The amount and size of particulates present in the system are acceptable. The AN level is above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable.



### DEGRADATION



24 Aug 2023 Diag: Doug Bogart

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition. Copper ppm levels are abnormal. Iron ppm levels are marginal. Zinc noted. The amount and size of particulates present in the system are acceptable. The AN level is above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable.



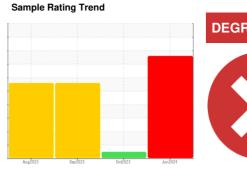


## **OIL ANALYSIS REPORT**

# [TO10002649] SOUTH COMP 21000-50-02 (S/N 1106-5717)

Compressor

**TULCO LUBSOIL SYNTHETIC COMPRESSOR 46** 





## **DIAGNOSIS**

### Recommendation

We advise that you check for a possible overheat condition. Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.

## Wear

All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil.

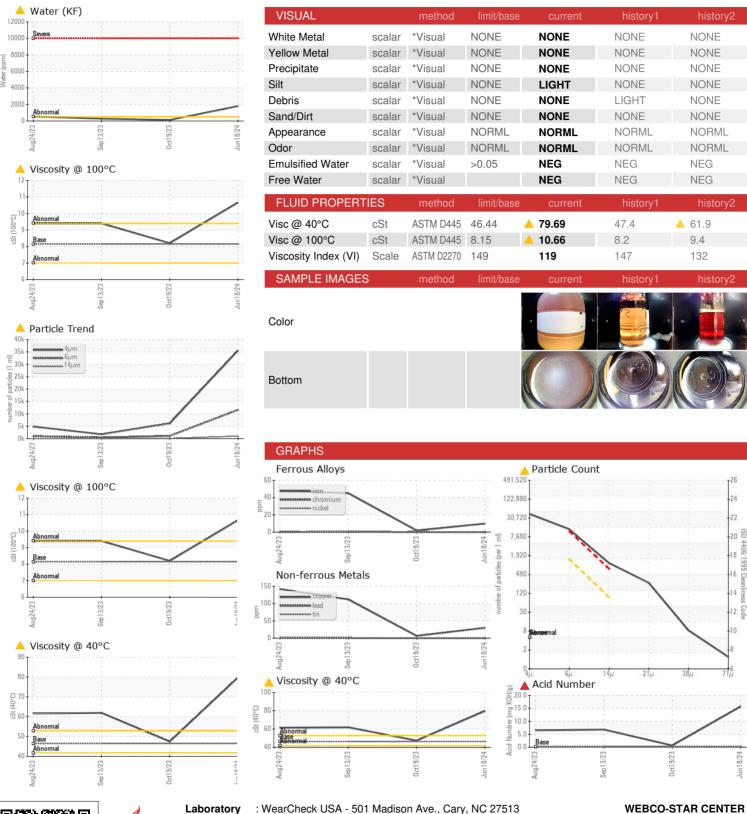
## ▲ Fluid Condition

The AN level is well above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable. The oil is no longer serviceable.

OR 46 ( GAL)		Aug202	3 Sep2023	0ct2023 J	un2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10003287	TO10002649	TO10002529
Sample Date		Client Info		18 Jun 2024	19 Oct 2023	13 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	10	2	<u>45</u>
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>3	<1	<1	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	0
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	30	7	<u> 112</u>
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		10	0	<1
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		4	3	0
Calcium	ppm	ASTM D5185m		23	1	0
Phosphorus	ppm	ASTM D5185m	74	58	72	91
Zinc	ppm	ASTM D5185m		69	65	<b>153</b>
Sulfur	ppm	ASTM D5185m	1000	322	849	455
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	<1	<1
Sodium	ppm	ASTM D5185m		5	2	6
Potassium	ppm	ASTM D5185m	>20	5	0	4
Water	%	ASTM D6304	>0.05	<u> </u>	0.012	0.028
ppm Water	ppm	ASTM D6304	>500	<b>1786</b>	121.3	281.5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		35540	6133	1765
Particles >6µm		ASTM D7647	>1300	<u> </u>	1080	452
Particles >14μm		ASTM D7647	>80	<u> </u>	61	41
Particles >21μm		ASTM D7647	>20	<u>228</u>	17	9
Particles >38μm		ASTM D7647	>4	<u> </u>	1	0
Particles >71μm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>22/21/17</u>	20/17/13	18/16/13
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.236	<b>15.66</b>	0.65	▲ 6.82



## **OIL ANALYSIS REPORT**





Certificate 12367

Sample No. Lab Number

: TO10003287 : 06216231 Unique Number : 11089095

Received **Tested** 

Diagnosed Test Package : IND 2 ( Additional Tests: KF, KV100, PrtCount, VI )

: 24 Jun 2024

: 20 Jun 2024

: 24 Jun 2024 - Jonathan Hester

US 74063 Contact: BOBBY DAUGHERTY bdaugherty@webcoindustries.com T:

201 S. WOODLAND DR.

SAND SPRINGS, OK

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - 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)

F: