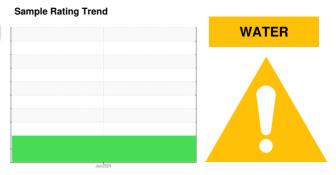


# **OIL ANALYSIS REPORT**

**QUINSYN PG** B221L-ACP002 (S/N UTY203073)
Component
Compressor



## DIAGNOSIS

### Recommendation

We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

All component wear rates are normal.

## Contamination

There is a moderate concentration of water present in the oil.

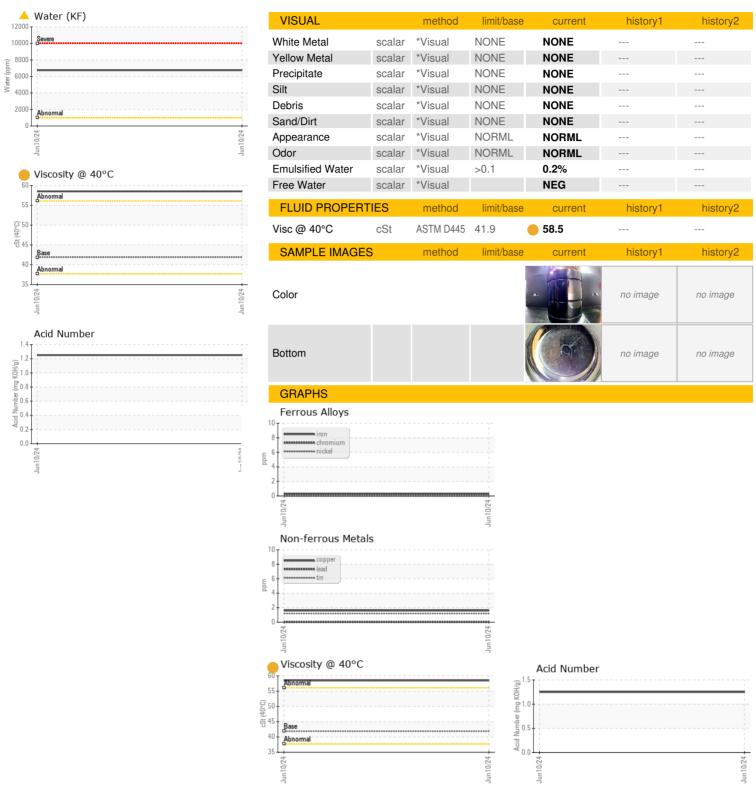
### Fluid Condition

The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

Sample Number         Client Info         UCH06208821             Sample Date         Client Info         10 Jun 2024             Machine Age         hrs         Client Info         34989             Oil Age         hrs         Client Info         1200             Oil Changed         Client Info         Not Changd             Sample Status         MBNORMAL              WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         50         <1             Chromium         ppm         ASTM D5185m         >10         0             Nickel         ppm         ASTM D5185m         0              Silver         ppm         ASTM D5185m         0              Lead         ppm         ASTM D5185m         >25         0             Copper         ppm         ASTM D5185m	CAMPLE INCOR	AATIONI		11 11 /1		1111	111
Sample Date         Client Info         10 Jun 2024	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         34989	Sample Number						
Oil Age         hrs         Client Info         1200	Sample Date		Client Info		10 Jun 2024		
WEAR METALS	<u> </u>	hrs					
WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >50         <1	•	hrs					
WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >50         <1			Client Info				
Iron	Sample Status				ABNORMAL		
Chromium         ppm         ASTM D5185m         >10         0             Nickel         ppm         ASTM D5185m         0             Titanium         ppm         ASTM D5185m         0             Silver         ppm         ASTM D5185m         0             Aluminum         ppm         ASTM D5185m         0             Aluminum         ppm         ASTM D5185m         >25         0             Lead         ppm         ASTM D5185m         >50         2             Copper         ppm         ASTM D5185m         >50         2             Tin         ppm         ASTM D5185m         0              Vanadium         ppm         ASTM D5185m         0              Cadmium         ppm         ASTM D5185m         0              Boron         ppm         ASTM D5185m         2              B	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>50	<1		
Titanium         ppm         ASTM D5185m         0             Silver         ppm         ASTM D5185m         0             Aluminum         ppm         ASTM D5185m         >25         0             Lead         ppm         ASTM D5185m         >50         2             Copper         ppm         ASTM D5185m         >50         2             Tin         ppm         ASTM D5185m         0              Vanadium         ppm         ASTM D5185m         0              Vanadium         ppm         ASTM D5185m         0              Cadmium         ppm         ASTM D5185m         0              ADDITIVES         method         limit/base         current         history1         histor           Boron         ppm         ASTM D5185m         2              Barium         ppm         ASTM D5185m         0	Chromium	ppm	ASTM D5185m	>10	0		
Silver	Nickel	ppm	ASTM D5185m		0		
Aluminum	Titanium	ppm	ASTM D5185m		0		
Lead         ppm         ASTM D5185m         >25         0             Copper         ppm         ASTM D5185m         >50         2             Tin         ppm         ASTM D5185m         >15         1             Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         2             Boron         ppm         ASTM D5185m         2             Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         0             Sulfur         ppm         ASTM D5185m         404        <	Silver	ppm	ASTM D5185m		0		
Copper         ppm         ASTM D5185m         >50         2             Tin         ppm         ASTM D5185m         >15         1             Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         2             Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         0             Zinc         ppm         ASTM D5185m         6             Sulfur         ppm         ASTM D5185m         404 </td <td>Aluminum</td> <td>ppm</td> <td>ASTM D5185m</td> <td>&gt;25</td> <td>0</td> <td></td> <td></td>	Aluminum	ppm	ASTM D5185m	>25	0		
Tin         ppm         ASTM D5185m         >15         1             Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         2             Barium         ppm         ASTM D5185m         447             Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         0             Zinc         ppm         ASTM D5185m         6             Sulfur         ppm         ASTM D5185m         25         <1        <	Lead	ppm	ASTM D5185m	>25	0		
Vanadium         ppm         ASTM D5185m         0             Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         2             Barium         ppm         ASTM D5185m         0             Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         0             Zinc         ppm         ASTM D5185m         6             Sulfur         ppm         ASTM D5185m         404             CONTAMINANTS         method         limit/base         current         history1         his	Copper	ppm	ASTM D5185m	>50	2		
Cadmium         ppm         ASTM D5185m         0             ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         2             Barium         ppm         ASTM D5185m         447             Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         0             Zinc         ppm         ASTM D5185m         6             Sulfur         ppm         ASTM D5185m         404             CONTAMINANTS         method         limit/base         current         history1         history1           Sodium         ppm         ASTM D5185m         >20         7 <t< td=""><td>Tin</td><td>ppm</td><td>ASTM D5185m</td><td>&gt;15</td><td>1</td><td></td><td></td></t<>	Tin	ppm	ASTM D5185m	>15	1		
ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185m         2             Barium         ppm         ASTM D5185m         447             Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         0             Zinc         ppm         ASTM D5185m         6             Sulfur         ppm         ASTM D5185m         404             Silicon         ppm         ASTM D5185m         >25         <1	Vanadium	ppm	ASTM D5185m		0		
Boron         ppm         ASTM D5185m         2             Barium         ppm         ASTM D5185m         447             Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         6             Zinc         ppm         ASTM D5185m         6             Sulfur         ppm         ASTM D5185m         404             CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >25         <1             Sodium         ppm         ASTM D5185m         54             Potassium         ppm         ASTM D5185m         >20         7	Cadmium	ppm	ASTM D5185m		0		
Barium         ppm         ASTM D5185m         447             Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         6             Zinc         ppm         ASTM D5185m         6             Sulfur         ppm         ASTM D5185m         404             CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >25         <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         0             Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         6             Zinc         ppm         ASTM D5185m         404             Sulfur         ppm         ASTM D5185m         404             CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >25         <1             Sodium         ppm         ASTM D5185m         54             Potassium         ppm         ASTM D6304         >0.1         0.675            Water         %         ASTM D6304         >1000         6750            FLUID DEGRADATION         method         limit/base         current	Boron	ppm	ASTM D5185m		2		
Manganese         ppm         ASTM D5185m         <1             Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         6             Zinc         ppm         ASTM D5185m         6             Sulfur         ppm         ASTM D5185m         404             CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >25         <1	Barium	ppm	ASTM D5185m		447		
Magnesium         ppm         ASTM D5185m         0             Calcium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         0             Zinc         ppm         ASTM D5185m         6             Sulfur         ppm         ASTM D5185m         404             CONTAMINANTS         method         limit/base         current         history1         history           Silicon         ppm         ASTM D5185m         >25         <1             Sodium         ppm         ASTM D5185m         54             Potassium         ppm         ASTM D5185m         >20         7             Water         %         ASTM D6304         >0.1         0.675             FLUID DEGRADATION         method         limit/base         current         history1         history1	Molybdenum	ppm	ASTM D5185m		0		
Calcium         ppm         ASTM D5185m         0             Phosphorus         ppm         ASTM D5185m         0             Zinc         ppm         ASTM D5185m         6             Sulfur         ppm         ASTM D5185m         404             CONTAMINANTS         method         limit/base         current         history1         history           Silicon         ppm         ASTM D5185m         >25         <1	Manganese	ppm	ASTM D5185m		<1		
Phosphorus         ppm         ASTM D5185m         0             Zinc         ppm         ASTM D5185m         6             Sulfur         ppm         ASTM D5185m         404             CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >25         <1             Sodium         ppm         ASTM D5185m         54             Potassium         ppm         ASTM D5185m         >20         7             Water         %         ASTM D6304         >0.1         0.675             FLUID DEGRADATION         method         limit/base         current         history1         history1	Magnesium	ppm	ASTM D5185m		0		
Zinc         ppm         ASTM D5185m         6             Sulfur         ppm         ASTM D5185m         404             CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >25         <1	Calcium	ppm	ASTM D5185m		0		
Sulfur         ppm         ASTM D5185m         404             CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >25         <1	Phosphorus	ppm	ASTM D5185m		0		
CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185m         >25         <1	Zinc	ppm	ASTM D5185m		6		
Silicon         ppm         ASTM D5185m         >25         <1             Sodium         ppm         ASTM D5185m         54             Potassium         ppm         ASTM D5185m         >20         7             Water         %         ASTM D6304         >0.1         △ 0.675             ppm Water         ppm         ASTM D6304         >1000         △ 6750             FLUID DEGRADATION         method         limit/base         current         history1         history	Sulfur	ppm	ASTM D5185m		404		
Sodium         ppm         ASTM D5185m         54             Potassium         ppm         ASTM D5185m         >20         7             Water         %         ASTM D6304         >0.1         ▲ 0.675             ppm Water         ppm         ASTM D6304         >1000         ▲ 6750             FLUID DEGRADATION         method         limit/base         current         history1         history1	CONTAMINANTS	6	method	limit/base	current	history1	history2
Sodium         ppm         ASTM D5185m         54             Potassium         ppm         ASTM D5185m         >20         7             Water         %         ASTM D6304         >0.1         ▲ 0.675             ppm Water         ppm         ASTM D6304         >1000         ▲ 6750             FLUID DEGRADATION         method         limit/base         current         history1         history1	Silicon	ppm	ASTM D5185m	>25	<1		
Potassium         ppm         ASTM D5185m         >20         7             Water         %         ASTM D6304         >0.1         ▲ 0.675             ppm Water         ppm         ASTM D6304         >1000         ▲ 6750             FLUID DEGRADATION         method         limit/base         current         history1         history1	Sodium		ASTM D5185m		54		
Water         %         ASTM D6304         >0.1         ▲ 0.675             ppm Water         ppm         ASTM D6304         >1000         ▲ 6750             FLUID DEGRADATION         method         limit/base         current         history1         history1	Potassium		ASTM D5185m	>20	7		
FLUID DEGRADATION method limit/base current history1 history	Water		ASTM D6304	>0.1	<b>△</b> 0.675		
	ppm Water	ppm	ASTM D6304	>1000	<b>△</b> 6750		
Acid Number (AN) mg KOH/g ASTM D8045 125	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Nation (AIN) highory Acid Doors 1.20	Acid Number (AN)	mg KOH/g	ASTM D8045		1.25		



# **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

Lab Number : 06208821 Unique Number : 11076282

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : UCH06208821

Received **Tested** Diagnosed

: 13 Jun 2024 : 20 Jun 2024

: 20 Jun 2024 - Jonathan Hester

Test Package : IND 2 ( Additional Tests: KF ) 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)

220 LAITRAM LN NEW ORLEANS, LA US 70123 Contact: ELLIOT PORTER

elliot.porter@laitram.com T:

Report Id: UCLAINEW [WUSCAR] 06208821 (Generated: 06/23/2024 00:48:44) Rev: 1

Contact/Location: ELLIOT PORTER - UCLAINEW

F:

**LAITRAM LLC**