

# **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

#### Machine Id **REELWINDER OS** Component **Gearbox** Fluid **1100/220 (--- 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.

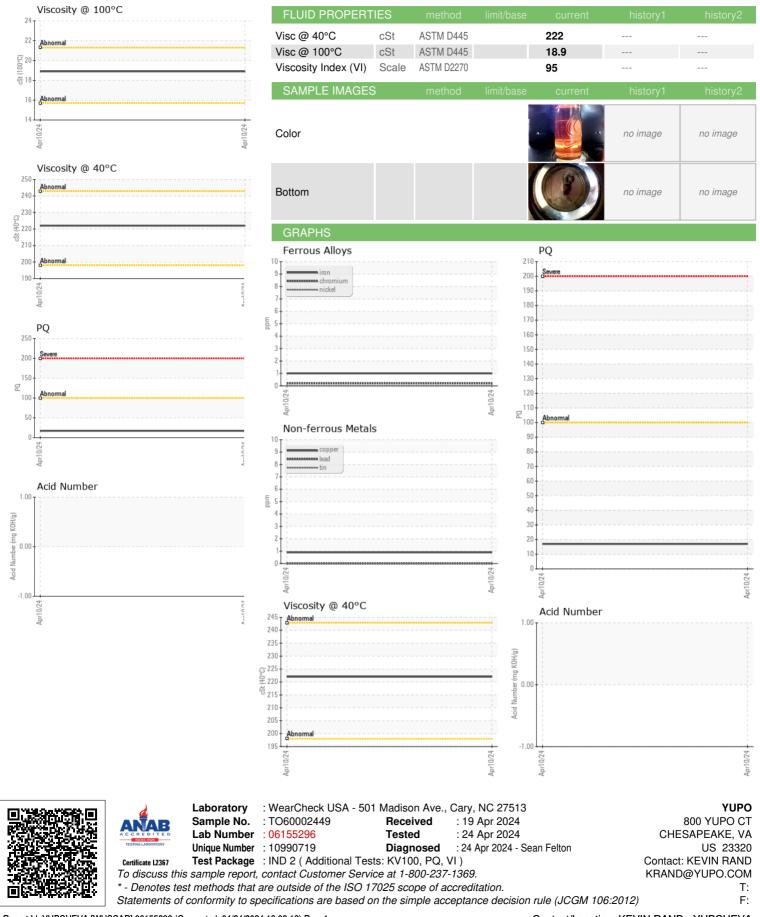
# Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO60002449		
Sample Date		Client Info		10 Apr 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		17		
Iron	ppm	ASTM D5185m	>200	1		
Chromium	ppm	ASTM D5185m	>15	<1		
Nickel	ppm	ASTM D5185m	>15	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	18		
Lead	ppm	ASTM D5185m	>100	0		
Copper	ppm	ASTM D5185m	>200	<1		
Tin	ppm	ASTM D5185m	>25	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m		0		
	ppm			-		
Barium	ppm	ASTM D5185m		6		
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		6 2248		
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		6 2248 0		
Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		6 2248 0 0		
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		6 2248 0 0 102		 
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		6 2248 0 0 102 2841	  	
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		6 2248 0 0 102 2841 1109	   	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	6 2248 0 0 102 2841 1109 5099		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>Method</b>	limit/base	6 2248 0 0 102 2841 1109 5099 current	     history1	     history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m		6 2248 0 0 102 2841 1109 5099 current 35	     history1	    history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m ASTM D5185m	>50	6 2248 0 0 102 2841 1109 5099 current 35 0	     history1	    history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>50 >20	6 2248 0 0 102 2841 1109 5099 current 35 0 2	     history1  	    history2  
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>50 >20 limit/base	6 2248 0 0 102 2841 1109 5099 current 355 0 2 2 current	    history1   history1	    history2   history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>50 >20 limit/base NONE	6 2248 0 0 102 2841 1109 5099 current 35 0 2 2 current NONE	     history1   history1	    history2   history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Yisual	>50 >20 limit/base NONE NONE	6 2248 0 0 102 2841 1109 5099 current 35 0 2 2 current NONE NONE	<ul> <li></li> <li></li> <li></li> <li></li> <li></li> <li>history1</li> <li></li> <li>history1</li> <li></li> <li>history1</li> </ul>	     history2   history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Yisual	>50 >20 limit/base NONE NONE NONE	6 2248 0 0 102 2841 1109 5099 current 35 0 2 2 current NONE NONE NONE	<ul> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li>history1</li> <li></li> <li>history1</li> <li></li> <li></li> </ul>	     history2  history2  history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Yisual *Visual *Visual	>50 >20 limit/base NONE NONE NONE NONE	6 2248 0 0 102 2841 1109 5099 current 35 0 2 2 current NONE NONE NONE NONE NONE	<ul> <li></li> <li></li> <li></li> <li></li> <li></li> <li>history1</li> <li></li> <li>history1</li> <li></li> <li></li></ul>	     history2   history2  history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Yisual *Visual *Visual *Visual *Visual	>50 >20 limit/base NONE NONE NONE NONE NONE	6 2248 0 0 102 2841 1109 5099 current 355 0 2 2 current NONE NONE NONE NONE NONE NONE	<ul> <li></li> <li></li> <li></li> <li></li> <li></li> <li>history1</li> <li></li> <li></li> <li>history1</li> <li></li> <li></li></ul>	      history2  history2  history2  
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual	>50 >20 limit/base NONE NONE NONE NONE NONE	6 2248 0 0 102 2841 1109 5099 current 35 0 2 2 current NONE NONE NONE NONE NONE NONE NONE	<ul> <li></li> <li< th=""><th>     history2   history2  history2</th></li<></ul>	     history2   history2  history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual	>50 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NONE	6 2248 0 0 102 2841 1109 5099 <i>current</i> 35 0 2 <i>current</i> 35 0 2 <i>current</i> NONE NONE NONE NONE NONE NONE NONE NON	<ul> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li>history1</li> <li></li> <li></li></ul>	    history2    history2    
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>50 220 Iimit/base NONE NONE NONE NONE NONE NONE NONE NON	6 2248 0 0 102 2841 1109 5099 current 35 0 2 current NONE NONE NONE NONE NONE NONE NONE NON	<ul> <li></li> <li< th=""><th>      history2  history2  history2</th></li<></ul>	      history2  history2  history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual	>50 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NONE	6 2248 0 0 102 2841 1109 5099 <i>current</i> 35 0 2 <i>current</i> 35 0 2 <i>current</i> NONE NONE NONE NONE NONE NONE NONE NON	<ul> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li>history1</li> <li></li> <li></li></ul>	    history2    history2   



# **OIL ANALYSIS REPORT**



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