

# WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

#### Machine Id NO UNIT WC0884654 Component Unknown Component Fluid SHELL OMALA 320 (--- GAL)

## RECOMMENDATION

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. Please provide more complete information on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### WEAR

All component wear rates are normal.

### CONTAMINATION

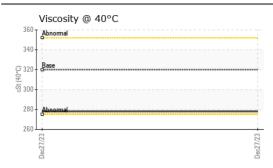
There is no indication of any contamination in the sample.

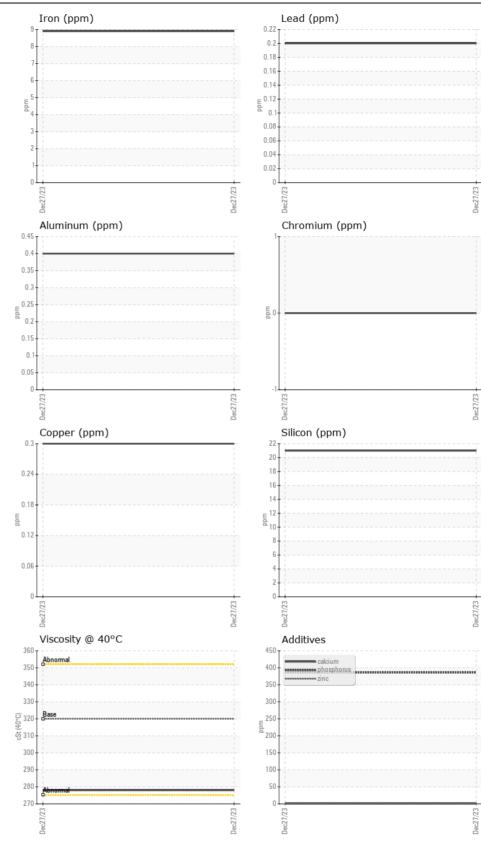
## FLUID CONDITION

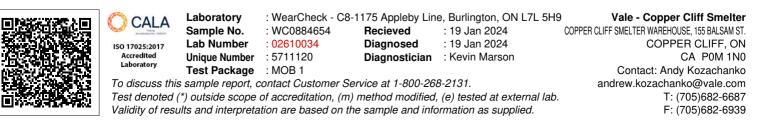
Additive levels indicate the addition of a different brand, or type of sample. The condition of the sample is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0884654		
Sample Date		Client Info		27 Dec 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		N/A		
Sample Status				NORMAL		
				•		
Iron	ppm	ASTM D5185(m)		9		
Chromium	ppm	ASTM D5185(m)		0		
Nickel	ppm	ASTM D5185(m)		<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)		<1		
Lead	ppm	ASTM D5185(m)		<1		
Copper	ppm	ASTM D5185(m)		<1		
Tin	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)	NONE	0		
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Silicon	ppm	ASTM D5185(m)		21		
Silicon Potassium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>20	21 <1		
		· · /	>20			
Potassium		ASTM D5185(m)	>20 NONE	<1		
Potassium Water	ppm	ASTM D5185(m) WC Method		<1 NEG		
Potassium Water Silt	ppm scalar	ASTM D5185(m) WC Method Visual*	NONE	<1 NEG NONE		
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185(m) WC Method Visual* Visual*	NONE NONE	<1 NEG NONE NONE		  
Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual*	NONE NONE NONE	<1 NEG NONE NONE NONE	  	  
Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual*	NONE NONE NORML	<1 NEG NONE NONE NONE NORML	   	    
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual*	NONE NONE NORML	<1 NEG NONE NONE NORML NORML NEG	   	   
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m)	NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NEG 0		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	NONE NONE NORML NORML 5.5	<1 NEG NONE NONE NORML NORML NEG 0 24		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	NONE NONE NORML NORML 5.5 0.4	<1 NEG NONE NONE NORML NORML NEG 0 24 0		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NONE NONE NORML NORML 5.5	<1 NEG NONE NONE NORML NEG 0 24 0 0		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NONE NONE NORML NORML 5.5 0.4 0.5	<1 NEG NONE NONE NORML NORML NEG 0 24 0 24 0 0 0		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NONE NONE NORML NORML 5.5 0.4 0.5	<1 NEG NONE NONE NORML NORML NEG 0 24 0 24 0 0 0 0 0 0		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NONE NONE NORML NORML 5.5 0.4 0.5 23 13	<1 NEG NONE NONE NORML NORML NEG 0 24 0 24 0 0 0 0 0 24 0 0 24 0 0 0 24		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NONE NONE NORML NORML 5.5 0.4 0.5 23 13 450	<1 NEG NONE NONE NORML NORML NEG 0 24 0 24 0 24 0 0 24 0 0 24 0 0 24 0 0 0 24 0 0 24 0 0 24 0 0 24 0 0 0 24 0 0 24 0 0 24 0 0 24 0 0 0 24 0 0 0 0		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NONE NONE NORML NORML 5.5 0.4 0.5 23 13 450 9.9	<1 NEG NONE NONE NORML NORML NEG 0 24 0 24 0 0 24 0 0 24 0 0 24 0 0 24 1 386 1		
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NONE NONE NORML NORML 5.5 0.4 0.5 23 13 450	<1 NEG NONE NONE NORML NORML NEG 0 24 0 24 0 24 0 0 24 0 0 24 0 0 24 0 0 0 24 0 0 24 0 0 24 0 0 24 0 0 0 24 0 0 24 0 0 24 0 0 24 0 0 0 24 0 0 0 0		

Contact/Location: Andy Kozachanko - INCOCCSMR







Page 2 of 2