

#### Machine Id **YALE BEW3X43RT1402 C0013 (S/N 07H114K57)** Component Hoisting Gearbox

# {not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

### **WEAR**

All component wear rates are normal.

# CONTAMINATION

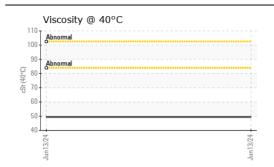
There is no indication of any contamination in the oil.

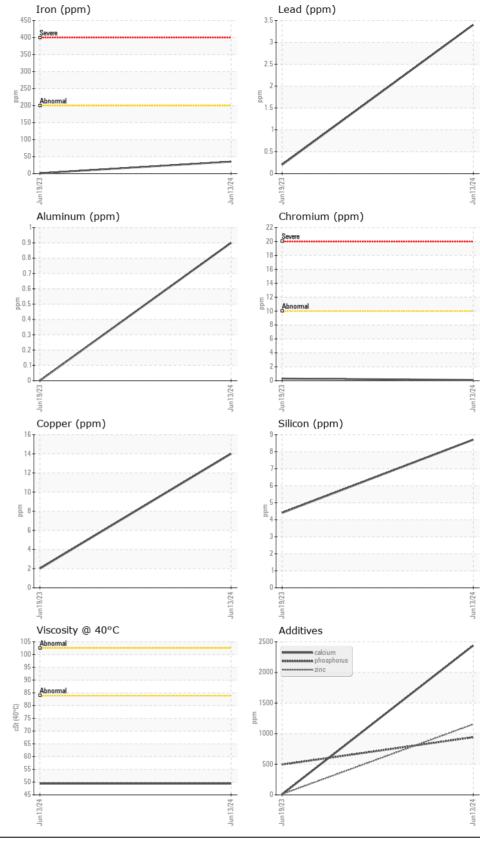
# **FLUID CONDITION**

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0037338	DC0029213	
Sample Date		Client Info		13 Jun 2024	19 Jun 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Filter Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
Iron			>200	95		
Chromium	ppm	ASTM D5185m		35	1	
Nickel	ppm	ASTM D5185m	>10	<1	<1	
	ppm	ASTM D5185m	>10	0	0	
Titanium Silver	ppm	ASTM D5185m ASTM D5185m		<1	0	
Aluminum	ppm	ASTM D5185m		0 <1	0	
	ppm			<1 3	-	
Lead	ppm	ASTM D5185m		-	<1	
Copper	ppm	ASTM D5185m		14	2	
Tin	ppm	ASTM D5185m		0	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	
White Metal	scalar	*Visual	NONE	NONE	NONE	
				NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal Silicon	scalar ppm	*Visual ASTM D5185m	NONE	NONE 9	NONE 4	
			NONE			
Silicon	ppm	ASTM D5185m		9	4	  
Silicon Potassium	ppm	ASTM D5185m ASTM D5185m	>20	9 4	4	   
Silicon Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m WC Method	>20 >0.2	9 4 NEG	4 1 NEG	
Silicon Potassium Water Silt	ppm ppm scalar	ASTM D5185m ASTM D5185m WC Method *Visual	>20 >0.2 NONE	9 4 NEG NONE	4 1 NEG NONE	
Silicon Potassium Water Silt Debris	ppm ppm scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>20 >0.2 NONE NONE	9 4 NEG NONE NONE	4 1 NEG NONE NONE	
Silicon Potassium Water Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>20 >0.2 NONE NONE NONE	9 4 NEG NONE NONE NONE	4 1 NEG NONE NONE	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE NORML	9 4 NEG NONE NONE NONE NORML	4 1 NEG NONE NONE NONE NORML	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE NORML	9 4 NEG NONE NONE NORE NORML NEG	4 1 NEG NONE NONE NONE NORML NEG	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.2 NONE NONE NONE NORML	9 4 NEG NONE NONE NORML NORML NEG 8	4 1 NEG NONE NONE NORML NORML NEG 10	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm ppm scalar scalar scalar scalar scalar scalar gpm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.2 NONE NONE NONE NORML	9 4 NEG NONE NONE NORML NORML NEG 8 62	4 1 NEG NONE NONE NORML NORML NEG 10 14	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NONE NORML	9 4 NEG NONE NONE NORML NORML NEG 8 62 7	4 1 NEG NONE NONE NONE NORML NORML NEG 10 14 2	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NONE NORML	9 4 NEG NONE NONE NORML NORML NEG 8 62 7 3	4 1 NEG NONE NONE NORML NORML NEG 10 14 2 0	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NONE NORML	9 4 NEG NONE NONE NORML NORML NEG 8 62 7 3 1	4 1 NEG NONE NONE NORML NORML NEG 10 14 2 0 <1	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NONE NORML	9 4 NEG NONE NONE NORML NORML NEG 8 62 7 3 1 3 1 34	4 1 NEG NONE NONE NORML NORML NEG 10 14 2 0 <1 1	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NONE NORML	9 4 NEG NONE NONE NORML NORML NEG 8 62 7 3 4 34 2438	4 1 NEG NONE NONE NORML NORML NEG 10 14 2 0 <1 1 1 8	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NONE NORML	9 4 NEG NONE NONE NORML NORML NEG 8 62 7 3 1 34 2438 941	4 1 NEG NONE NONE NORML NORML NEG 10 14 2 0 <1 1 4 2 0 <1 1 8 494	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NONE NORML	9 4 NEG NONE NONE NORML NORML NEG 8 62 7 3 1 34 2438 941 1152	4 1 NEG NONE NONE NORML NORML NEG 10 14 2 0 4 14 2 0 14 1 8 4 94 11	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NONE NORML	9 4 NEG NONE NONE NORML NORML NEG 8 62 7 3 1 34 2438 941	4 1 NEG NONE NONE NORML NORML NEG 10 14 2 0 <1 1 4 2 0 <1 1 8 494	

Contact/Location: JASON WILDE - CRAASHMA





**CRANEWORKS INC - MID-ATLANTIC** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : DC0037338 Received 11089 LEADBETTER ROAD : 28 Jun 2024 Lab Number : 06223828 Tested ASHLAND, VA : 01 Jul 2024 Unique Number : 11102025 Diagnosed : 01 Jul 2024 - Don Baldridge US 23005 Test Package : MOB 1 Contact: JASON WILDE Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jcwilde@vacraneworks.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: JASON WILDE - CRAASHMA Page 2 of 2