

Machine Id YALE BE050X033L12B Q2134B2 (S/N 06K01K767) Component Componen Component Componen</t

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

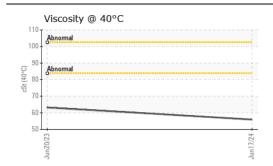
There is no indication of any contamination in the oil.

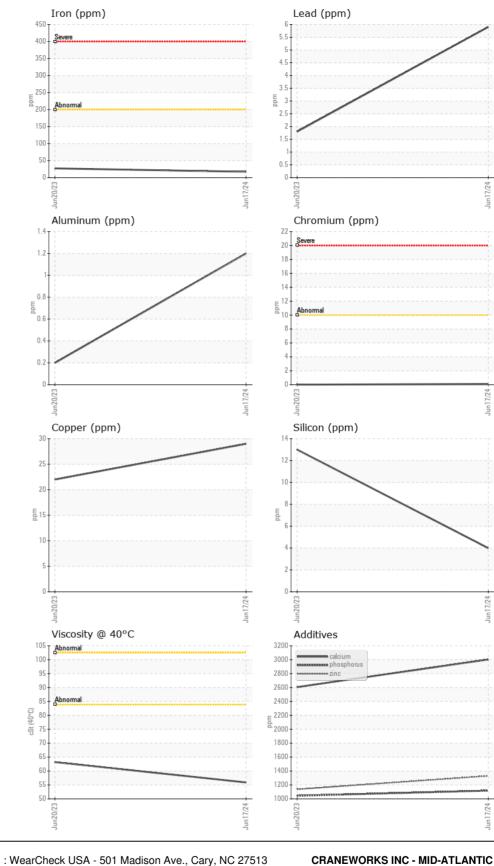
FLUID CONDITION

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

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0037375	DC0029221	
Sample Date		Client Info		17 Jun 2024	20 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	N/A	
Filter Changed		Client Info		Not Changd	N/A	
Sample Status				NORMAL	NORMAL	
Iron	nnm	ASTM D5185m	>200	17	27	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm ppm	ASTM D5185m	>10	<1	0	
Silver		ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m		1	<1	
Lead	ppm	ASTM D5185m		6	2	
Copper	ppm	ASTM D5185m		29	22	
Tin	ppm	ASTM D5185m		29	<1	
Vanadium	ppm ppm	ASTM D5185m		<1	<1	
White Metal	scalar	*Visual	NONE	NONE	MODER	
					-	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	NONE	NONE 4	13	
			>20			
Silicon	ppm	ASTM D5185m		4	13	
Silicon Potassium	ppm	ASTM D5185m ASTM D5185m	>20	4 3	13 2	
Silicon Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m WC Method	>20 >0.2	4 3 NEG	13 2 NEG	
Silicon Potassium Water Silt	ppm ppm scalar	ASTM D5185m ASTM D5185m WC Method *Visual	>20 >0.2 NONE	4 3 NEG NONE	13 2 NEG NONE	
Silicon Potassium Water Silt Debris	ppm ppm scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>20 >0.2 NONE NONE	4 3 NEG NONE NONE	13 2 NEG NONE NONE	
Silicon Potassium Water Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE	4 3 NEG NONE NONE NONE	13 2 NEG NONE 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	4 3 NEG NONE NONE NONE NORML	13 2 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 NORML	4 3 NEG NONE NONE NORE NORML NEG	13 2 NEG NONE NONE NORML NORML NEG	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.2 NONE NONE NONE NORML NORML	4 3 NEG NONE NONE NORML NORML NEG 1	13 2 NEG NONE NONE NORML NORML NEG	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm ppm scalar scalar scalar scalar scalar scalar gppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NONE NORML NORML	4 3 NEG NONE NONE NORML NORML NEG 1 8	13 2 NEG NONE NONE NORML NORML NEG <1 15	
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 NORML	4 3 NEG NONE NONE NORML NORML NEG 1 8 <1	13 2 NEG NONE NONE NORML NORML NORML NEG <1 15 0	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	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	>20 >0.2 NONE NONE NONE NORML NORML	4 3 NEG NONE NONE NORML NORML NEG 1 8 <1 <1	13 2 NEG NONE NONE NORML NORML NEG <1 15 0 <1	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm ppm scalar scalar scalar scalar scalar gpm 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 NORML	4 3 NEG NONE NONE NORML NORML NEG 1 8 <1 8 <1 5 1 4 1	13 2 NEG NONE NONE NORML NORML NEG <1 15 0 <1 15 0 <1	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	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	>20 >0.2 NONE NONE NONE NORML NORML	4 3 NEG NONE NONE NORML NORML NEG 1 8 <1 <1 <1 <1 <1 9	13 2 NEG NONE NONE NORML NORML NEG <1 15 0 <1	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum 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 NORML	4 3 NEG NONE NONE NORML NORML NEG 1 8 <1 <1 <1 <1 9 3003	13 2 NEG NONE NONE NORML NORML NEG <1 15 0 <1 15 0 <1 15 0 <1 5 0 <1 4 15	
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 ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NONE NORML NORML	4 3 NEG NONE NONE NORML NORML NEG 1 8 <1 <1 <1 <1 9 3003 1118	13 2 NEG NONE NONE NORML NORML NEG <1 15 0 <1 5 (15 0 <1 6 2606 1045	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Malybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm 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 ASTM D5185m	>20 >0.2 NONE NONE NONE NORML NORML	4 3 NEG NONE NONE NORML NORML NEG 1 8 <1 <1 <1 <1 <1 <1 9 3003 1118 1330	13 2 NEG NONE NONE NORML NORML NEG <1 15 0 <1 15 0 <1 4 15 0 21 5 0 <1 15 0 0 <1 15 0 15 0 1137	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm 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 NORML	4 3 NEG NONE NONE NORML NORML NEG 1 8 <1 <1 <1 <1 9 3003 1118	13 2 NEG NONE NONE NORML NORML NEG <1 15 0 <1 5 (15 0 <1 6 2606 1045	

Contact/Location: JASON WILDE - CRAASHMA





Sample No. : DC0037375 Received 11089 LEADBETTER ROAD : 28 Jun 2024 Lab Number : 06223827 Tested ASHLAND, VA : 01 Jul 2024 Unique Number : 11102024 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Laboratory

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

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