

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

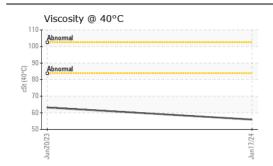
There is no indication of any contamination in the oil.

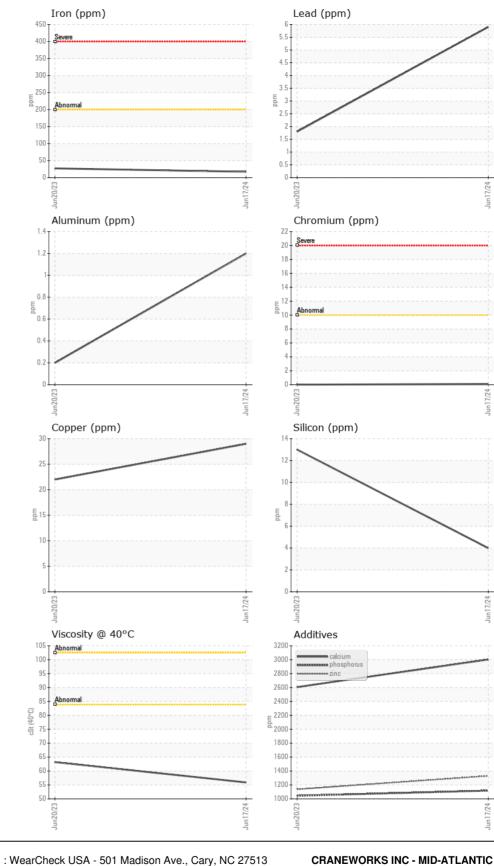
FLUID CONDITION

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

| | | | | <u> </u> | | |
|--|--|--|---|---|---|----------|
| 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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