

#### Machine Id YALE BE050X033L12D Q2134B1 (S/N 06K01K77)

**Hoisting Gearbox** 

# GEAR OIL LS 80W90 (--- GAL)

### RECOMMENDATION

Resample at the next service interval to monitor.

#### **WEAR**

All component wear rates are normal.

## CONTAMINATION

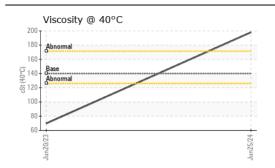
There is no indication of any contamination in the oil.

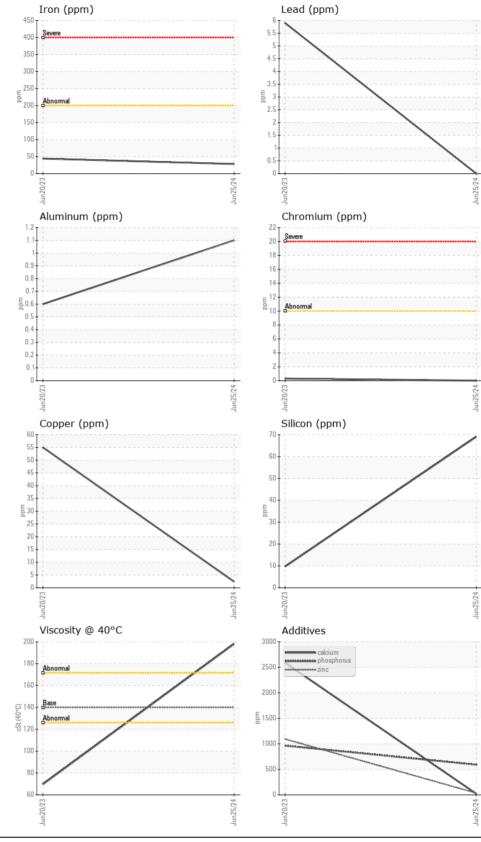
## FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0037345	DC0029223	
Sample Date		Client Info		25 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		N/A	Not Changd	
Filter Changed		Client Info		N/A	Not Changd	
Sample Status				NORMAL	NORMAL	
Iron	nnm	ASTM D5185m	>200	28	44	
Chromium	ppm ppm	ASTM D5185m	>10	0	<1	
Nickel		ASTM D5105m	>10	0	0	
Titanium	ppm	ASTM D5185m	>10	۰ <1	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m		1	<1	
Lead	ppm	ASTM D5185m		0	6	
Copper	ppm ppm	ASTM D5185m		2	55	
Tin	ppm	ASTM D5185m		0	<1	
Vanadium		ASTM D5185m		<1	<1	
White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Scalal	visuai			NONL	
Silicon	ppm	ASTM D5185m		69	10	
Potassium		ASTM D5185m	>20	2		
	ppm	ASTIVI DOTODITI	~20	4	3	
Water	ppm	WC Method	>0.2	NEG	3 NEG	
Water Silt	ppm scalar			_		
		WC Method	>0.2	NEG	NEG	
Silt	scalar	WC Method *Visual	>0.2 NONE	NEG NONE	NEG	
Silt Debris	scalar scalar	WC Method *Visual *Visual	>0.2 NONE NONE	NEG NONE NONE	NEG NONE NONE	
Silt Debris Sand/Dirt	scalar scalar scalar	WC Method *Visual *Visual *Visual	>0.2 NONE NONE NONE	NEG NONE NONE NONE	NEG NONE NONE NONE	
Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual	>0.2 NONE NONE NONE NORML	NEG NONE NONE NONE NORML	NEG NONE NONE NORML	  
Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>0.2 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG	NEG NONE NONE NORML NORML NEG	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>0.2 NONE NONE NORML NORML >0.2	NEG NONE NONE NORE NORML NEG	NEG NONE NONE NORML NORML NEG	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar scalar ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>0.2 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG 6 31	NEG NONE NONE NORML NORML NEG 6 44	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar scalar ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>0.2 NONE NONE NORML NORML >0.2	NEG NONE NONE NORML NORML NEG 6 31 5	NEG NONE NONE NORML NORML NEG 6 44	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar scalar scalar ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>0.2 NONE NONE NORML NORML >0.2	NEG NONE NONE NORML NORML NEG 6 31 5 <	NEG NONE NONE NORML NORML NEG 6 44 0 3	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar scalar scalar ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.2 NONE NONE NORML >0.2 150	NEG NONE NONE NORML NORML NEG 6 31 5 <1 1	NEG NONE NONE NORML NORML NEG 6 44 0 3 1	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;0.2</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>&gt;0.2</li> <li>150</li> <li>10</li> </ul>	NEG NONE NONE NORML NORML NEG 6 31 5 <1 1 2	NEG NONE NONE NORML NORML NEG 6 44 0 3 1 1 16	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;0.2</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.2</li> <li>150</li> <li>10</li> <li>70</li> </ul>	- NEG NONE NONE NORML NORML NEG 6 31 5 <1 1 2 23	NEG NONE NONE NORML NORML NEG 6 44 0 3 1 1 16 2589	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Malybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;0.2</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.2</li> <li>150</li> <li>10</li> <li>70</li> <li>2000</li> </ul>	- NEG NONE NONE NORML NORML NEG 6 31 5 < 1 1 2 23 591	NEG NONE NONE NORML NORML NEG 6 44 0 3 1 1 16 2589 965	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;0.2</li> <li>NONE</li> <li>NORME</li> <li>NORML</li> <li>&gt;0.2</li> <li>150</li> <li>150</li> <li>10</li> <li>70</li> <li>2000</li> <li>50</li> </ul>	- NEG NONE NONE NORML NORML NEG 6 31 5 <1 1 2 23 23 591 34	NEG NONE NONE NORML NORML NEG 6 44 0 3 1 1 16 2589 965 1093	
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;0.2</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.2</li> <li>150</li> <li>10</li> <li>70</li> <li>2000</li> </ul>	- NEG NONE NONE NORML NORML NEG 6 31 5 < 1 1 2 23 591	NEG NONE NONE NORML NORML NEG 6 44 0 3 1 1 16 2589 965	

Contact/Location: JASON WILDE - CRAASHMA





**CRANEWORKS INC - MID-ATLANTIC** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : DC0037345 Received 11089 LEADBETTER ROAD : 28 Jun 2024 Lab Number : 06223835 Tested : 01 Jul 2024 Diagnosed Unique Number : 11102032 : 01 Jul 2024 - Don Baldridge 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)

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

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