



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**YALE BE050X033L12D Q2134B1 (S/N 06K01K77)**  
 Component  
**Hoisting Gearbox**  
 Fluid  
**GEAR OIL LS 80W90 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DC0037345</b>	DC0029223	---
Sample Date		Client Info		<b>25 Jun 2024</b>	20 Jun 2023	---
Machine Age	hrs	Client Info		<b>0</b>	0	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	Not Changd	---
Filter Changed		Client Info		<b>N/A</b>	Not Changd	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>28</b>	44	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m		<b>1</b>	<1	---
Lead	ppm	ASTM D5185m		<b>0</b>	6	---
Copper	ppm	ASTM D5185m		<b>2</b>	55	---
Tin	ppm	ASTM D5185m		<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

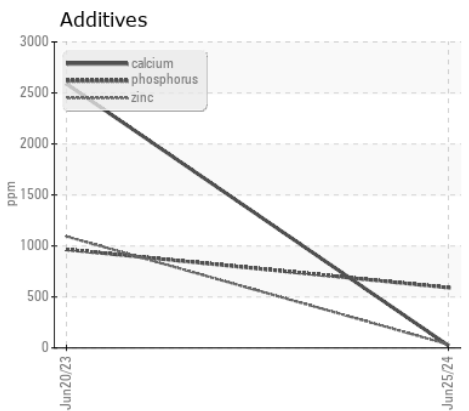
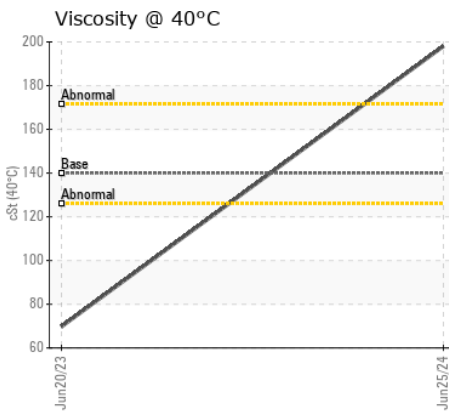
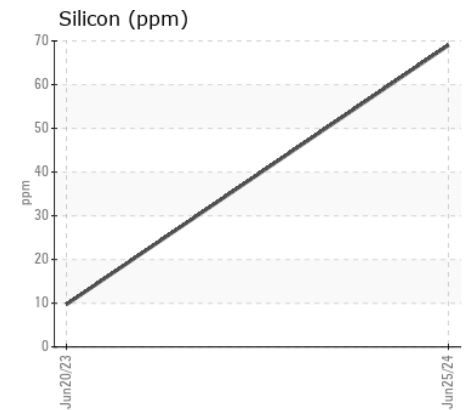
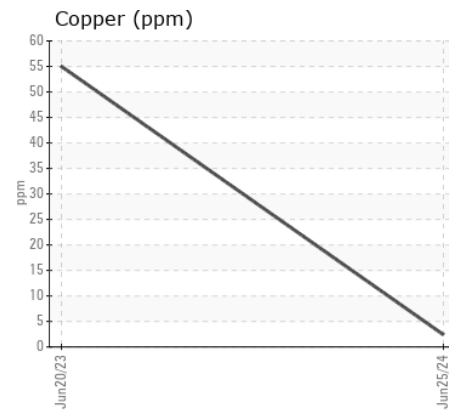
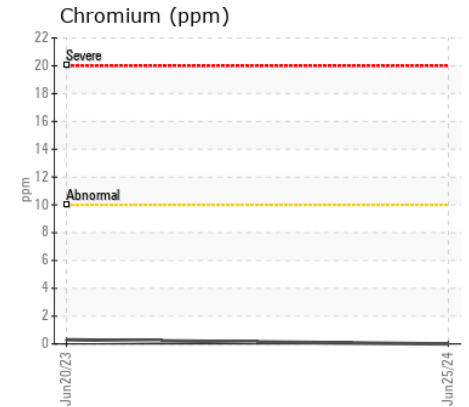
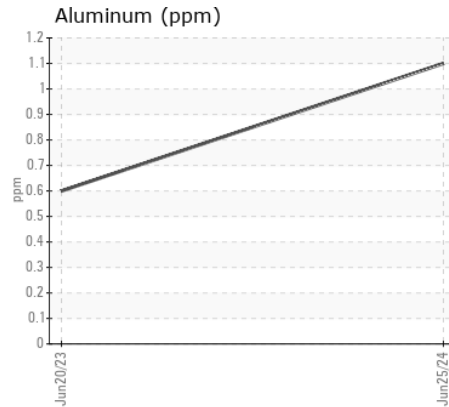
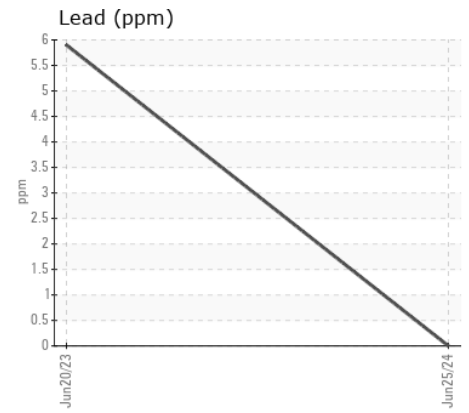
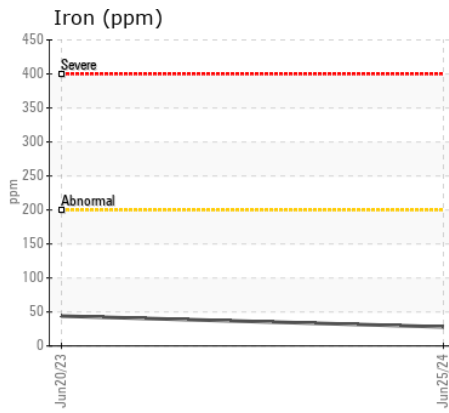
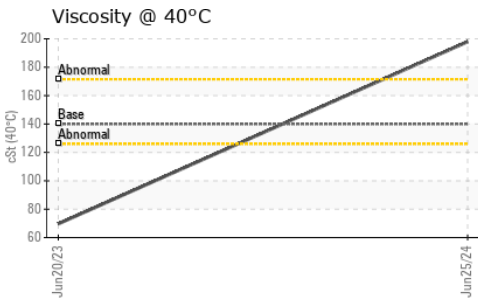
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		<b>69</b>	10	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>6</b>	6	---
Boron	ppm	ASTM D5185m	150	<b>31</b>	44	---
Barium	ppm	ASTM D5185m		<b>5</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	3	---
Manganese	ppm	ASTM D5185m		<b>1</b>	1	---
Magnesium	ppm	ASTM D5185m	10	<b>2</b>	16	---
Calcium	ppm	ASTM D5185m	70	<b>23</b>	2589	---
Phosphorus	ppm	ASTM D5185m	2000	<b>591</b>	965	---
Zinc	ppm	ASTM D5185m	50	<b>34</b>	1093	---
Sulfur	ppm	ASTM D5185m	20000	<b>19196</b>	9266	---
Visc @ 40°C	cSt	ASTM D445	140	<b>198</b>	69.7	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0037345  
**Lab Number** : 06223835  
**Unique Number** : 11102032  
**Test Package** : MOB 1

**Received** : 28 Jun 2024  
**Tested** : 01 Jul 2024  
**Diagnosed** : 01 Jul 2024 - Don Baldrige

**CRANWORKS INC - MID-ATLANTIC**  
 11089 LEADBETTER ROAD  
 ASHLAND, VA  
 US 23005  
 Contact: JASON WILDE  
 jcwilde@vacraneworks.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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)

T:  
F: