



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**YANMAR CHRIST YANMAR**  
Component  
**Diesel Engine**  
Fluid  
**CENPECO 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0865846	---	---
Sample Date		Client Info		01 Feb 2024	---	---
Machine Age	hrs	Client Info		16710	---	---
Oil Age	hrs	Client Info		520	---	---
Filter Age	hrs	Client Info		520	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	29	---	---
Chromium	ppm	ASTM D5185m	>6	<1	---	---
Nickel	ppm	ASTM D5185m	>2	0	---	---
Titanium	ppm	ASTM D5185m	>2	<1	---	---
Silver	ppm	ASTM D5185m	>2	0	---	---
Aluminum	ppm	ASTM D5185m	>20	6	---	---
Lead	ppm	ASTM D5185m	>95	0	---	---
Copper	ppm	ASTM D5185m	>85	<1	---	---
Tin	ppm	ASTM D5185m	>9	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

## CONTAMINATION

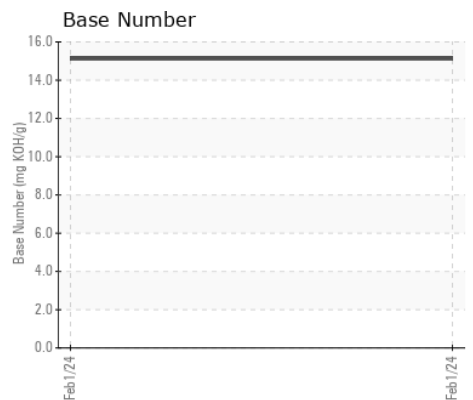
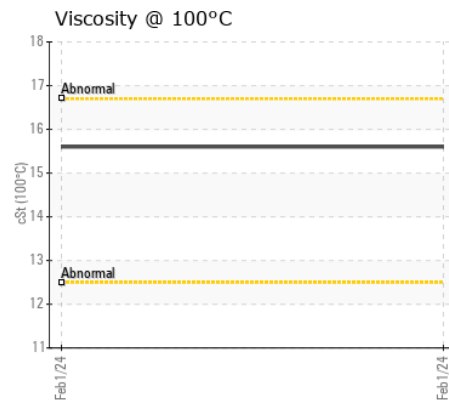
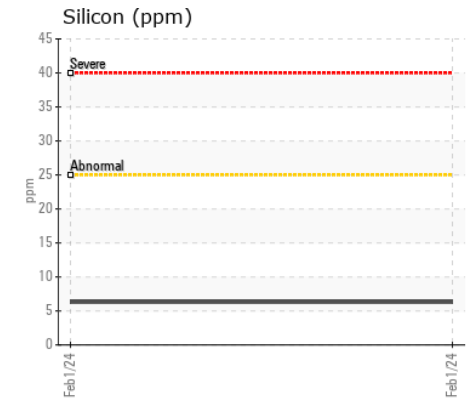
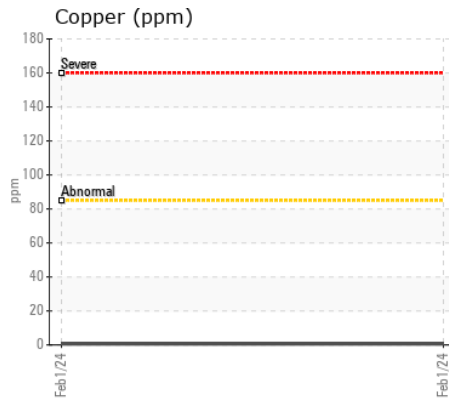
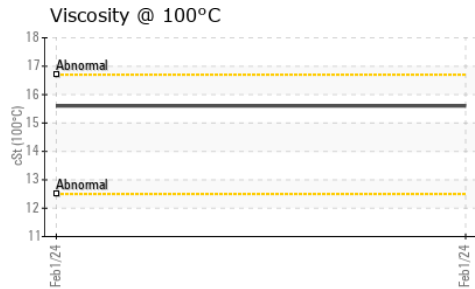
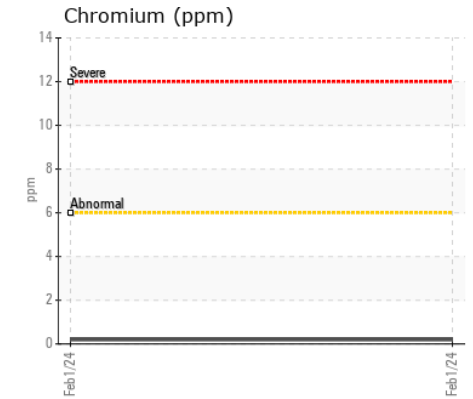
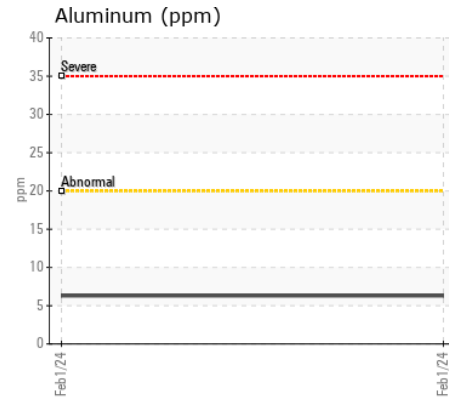
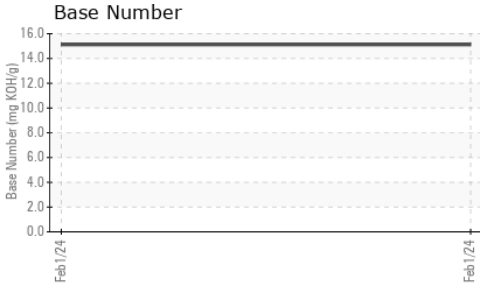
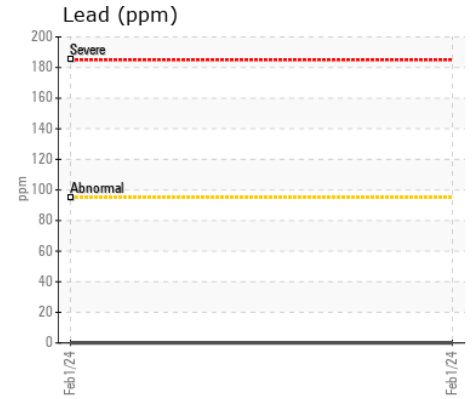
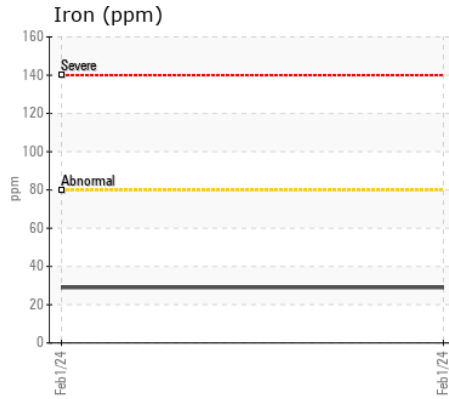
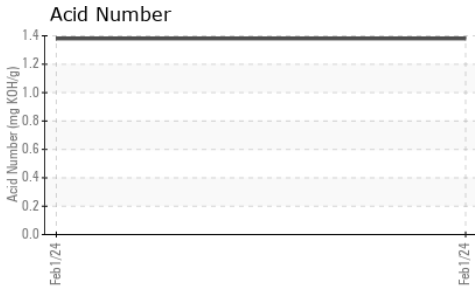
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	---	---
Potassium	ppm	ASTM D5185m	>20	3	---	---
Fuel		WC Method	>4.0	<1.0	---	---
Water		WC Method	>0.1	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844		1.5	---	---
Nitration	Abs/cm	*ASTM D7624	>20	11.4	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---	---

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	---	---
Boron	ppm	ASTM D5185m		0	---	---
Barium	ppm	ASTM D5185m		103	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		429	---	---
Calcium	ppm	ASTM D5185m		3891	---	---
Phosphorus	ppm	ASTM D5185m		1259	---	---
Zinc	ppm	ASTM D5185m		1602	---	---
Sulfur	ppm	ASTM D5185m		5560	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.38	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		15.12	---	---
Visc @ 100°C	cSt	ASTM D445		15.6	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : WC0865846

**Lab Number** : 06087604

**Unique Number** : 10875049

**Test Package** : MOB 2

**Received** : 13 Feb 2024

**Tested** : 14 Feb 2024

**Diagnosed** : 14 Feb 2024 - Sean Felton

**EK EQUIPMENT LLC**

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Contact: ELAM

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T:

F:

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)