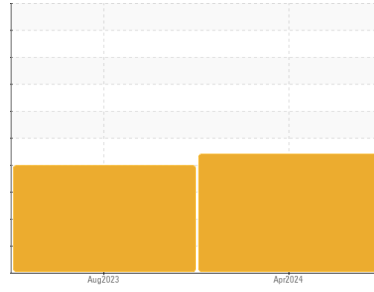




# OIL ANALYSIS REPORT

## Sample Rating Trend



DEGRADATION



Machine Id  
**YANMAR FAN**  
 Component  
**Diesel Engine**  
 Fluid  
**HENNESSEY (--- GAL)**

### DIAGNOSIS

#### ▲ Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### ▲ Fluid Condition

The AN level is above the recommended limit. The BN level is low. The oil is no longer serviceable.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0843376</b>	WC0800715	---
Sample Date	Client Info			<b>05 Apr 2024</b>	11 Aug 2023	---
Machine Age	hrs	Client Info		<b>6200</b>	0	---
Oil Age	hrs	Client Info		<b>1800</b>	0	---
Oil Changed	Client Info			<b>Not Chngd</b>	N/A	---
Sample Status				<b>SEVERE</b>	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	---
Water	WC Method	>0.2		<b>NEG</b>	NEG	---
Glycol	WC Method			<b>NEG</b>	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>33</b>	39	---
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	---
Nickel	ppm	ASTM D5185m	>4	<b>1</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	3	---
Lead	ppm	ASTM D5185m	>40	<b>1</b>	<1	---
Copper	ppm	ASTM D5185m	>330	<b>3</b>	2	---
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>1</b>	<1	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>23</b>	12	---
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	3	---
Molybdenum	ppm	ASTM D5185m		<b>53</b>	67	---
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>18</b>	21	---
Calcium	ppm	ASTM D5185m		<b>2093</b>	2206	---
Phosphorus	ppm	ASTM D5185m		<b>871</b>	667	---
Zinc	ppm	ASTM D5185m		<b>972</b>	753	---
Sulfur	ppm	ASTM D5185m		<b>3211</b>	3675	---

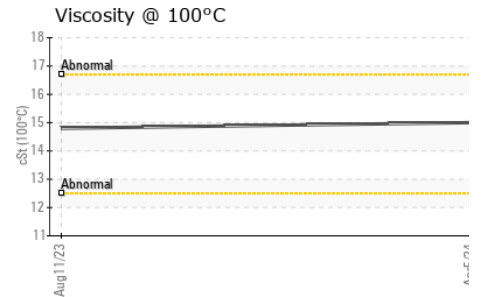
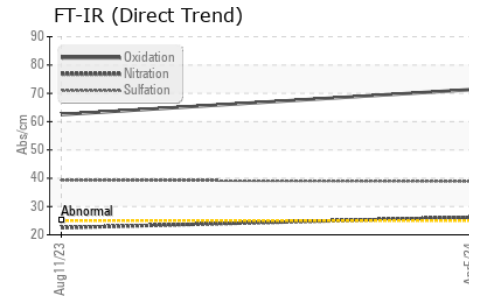
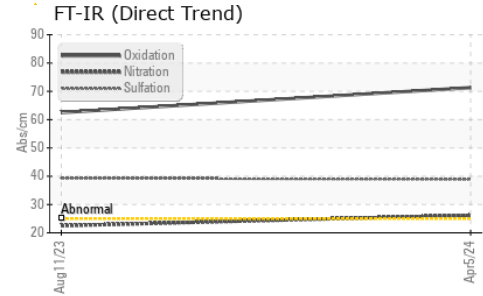
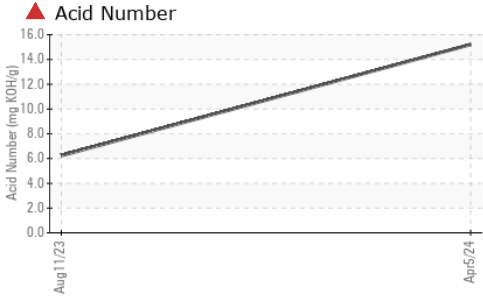
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>12</b>	▲ 57	---
Sodium	ppm	ASTM D5185m		<b>2</b>	4	---
Potassium	ppm	ASTM D5185m	>20	<b>18</b>	9	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>26.2</b>	22.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>38.9</b>	39.3	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>71.3</b>	62.5	---
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ <b>15.21</b>	▲ 6.23	---
Base Number (BN)	mg KOH/g	ASTM D2896		▲ <b>3.64</b>	▲ 4.75	---



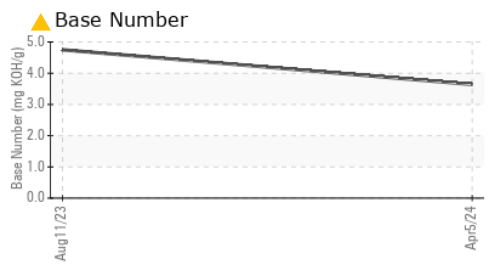
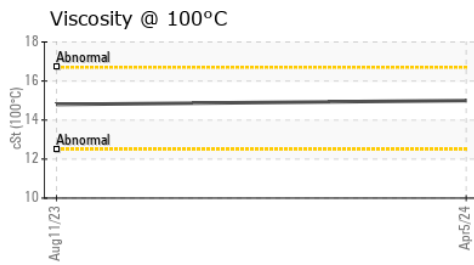
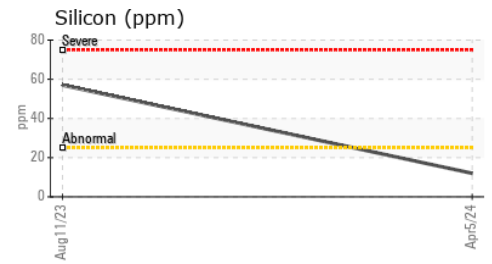
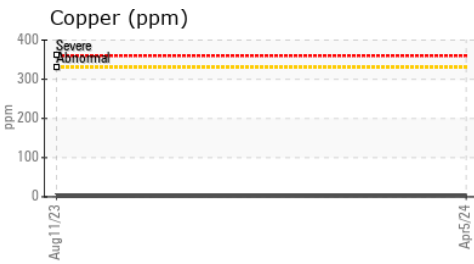
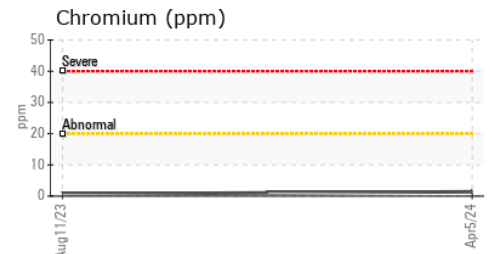
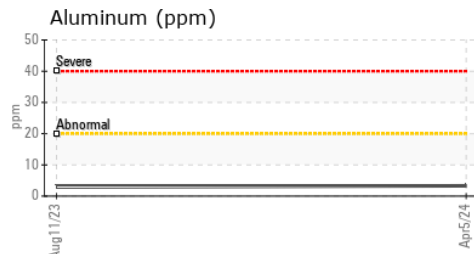
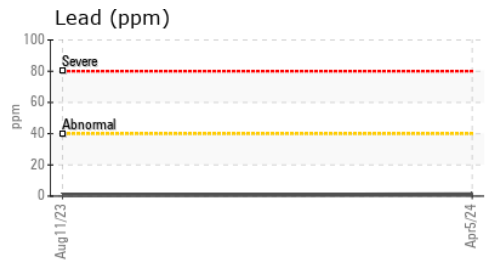
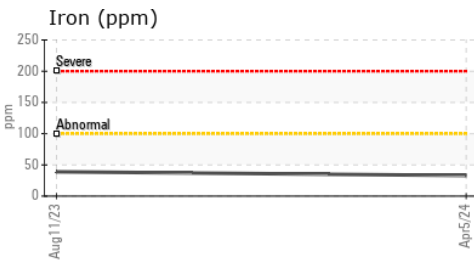
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.0	14.8	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0843376 **Received** : 11 Apr 2024  
**Lab Number** : 06146696 **Tested** : 18 Apr 2024  
**Unique Number** : 10976774 **Diagnosed** : 18 Apr 2024 - Jonathan Hester  
**Test Package** : MOB 2

**PARKE CO FIREWOOD**  
 4121 N 100 E  
 MARSHALL, IN  
 US 47859  
 Contact: ELAM SWAREY JR  
 cealey@cebridge.net

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: (765)597-2237  
F: