



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**TIGERCAT 620E 2017 (S/N 6206992)**  
Component  
**Rear Differential**  
Fluid  
**BAY 75W90 (15 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0669495</b>	WC0669485	WC0460263
Sample Date		Client Info		<b>19 Mar 2024</b>	17 Mar 2023	18 Mar 2022
Machine Age	hrs	Client Info		<b>10500</b>	9435	3204
Oil Age	hrs	Client Info		<b>1065</b>	1177	1666
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>55</b>	82	77
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	1	<1
Lead	ppm	ASTM D5185m	>25	<b>23</b>	34	68
Copper	ppm	ASTM D5185m	>100	<b>28</b>	39	57
Tin	ppm	ASTM D5185m	>10	<b>2</b>	3	3
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

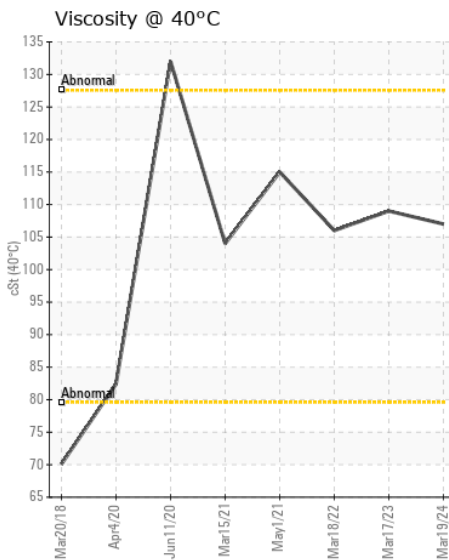
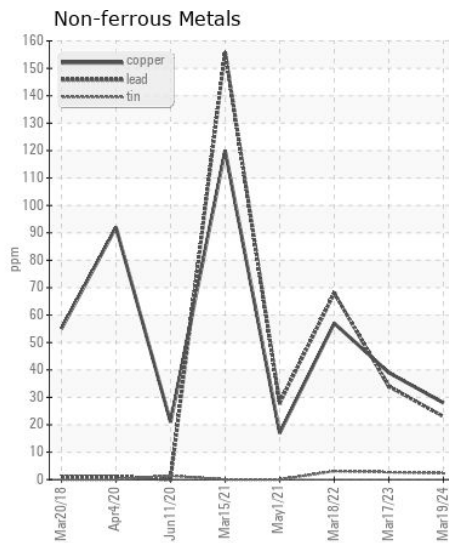
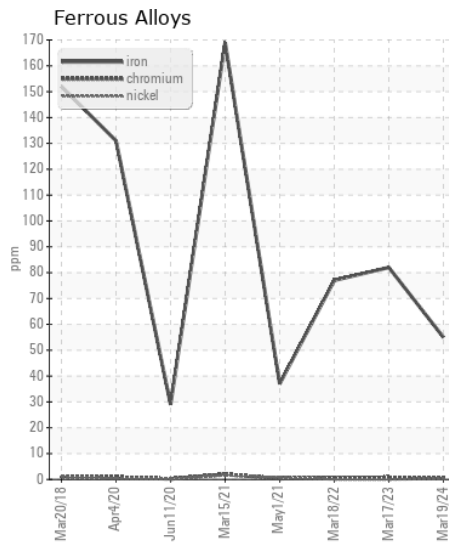
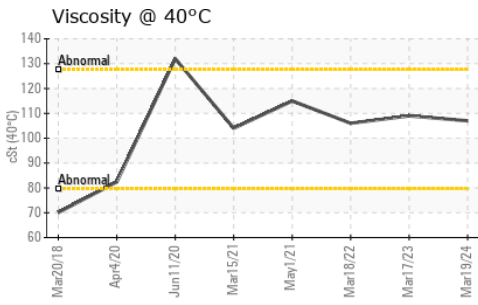
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>12</b>	7	7
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	0
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>3</b>	4	5
Boron	ppm	ASTM D5185m		<b>195</b>	202	209
Barium	ppm	ASTM D5185m		<b>8</b>	3	2
Molybdenum	ppm	ASTM D5185m		<b>5</b>	3	1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	3
Magnesium	ppm	ASTM D5185m		<b>12</b>	7	2
Calcium	ppm	ASTM D5185m		<b>188</b>	128	57
Phosphorus	ppm	ASTM D5185m		<b>1290</b>	1354	1372
Zinc	ppm	ASTM D5185m		<b>109</b>	80	45
Sulfur	ppm	ASTM D5185m		<b>24660</b>	25056	21425
Visc @ 40°C	cSt	ASTM D445		<b>107</b>	109	106



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0669495  
**Lab Number** : 06153856  
**Unique Number** : 10989279  
**Test Package** : FLEET  
**Received** : 18 Apr 2024  
**Tested** : 23 Apr 2024  
**Diagnosed** : 23 Apr 2024 - Wes Davis

**TWIN STATE FORESTRY**

PO BOX 269  
 ASCUTNEY, VT  
 US 05030

Contact: STEVE GALBREATH  
 forestry@comcast.net

T: (802)291-0627  
 F: (802)291-0627

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)