



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area  
**Contracting**  
Machine Id  
**5536 5536**  
Component  
**Right Final Drive**  
Fluid  
**GEAR OIL SAE 85W140 (2 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0902854</b>	WC0819180	WC0740775
Sample Date		Client Info		<b>27 Feb 2024</b>	09 Aug 2023	21 Sep 2022
Machine Age	hrs	Client Info		<b>1208</b>	651	10
Oil Age	hrs	Client Info		<b>1208</b>	651	10
Filter Age	hrs	Client Info		<b>1208</b>	651	10
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>750	<b>160</b>	137	31
Chromium	ppm	ASTM D5185m	>9	<b>3</b>	2	<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>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>1</b>	2	<1
Lead	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>40	<b>1</b>	1	<1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

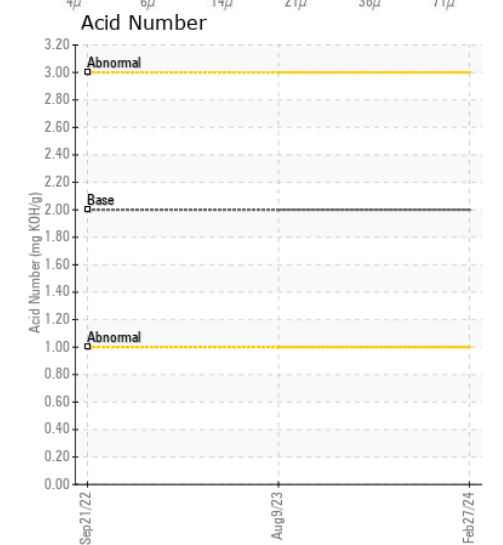
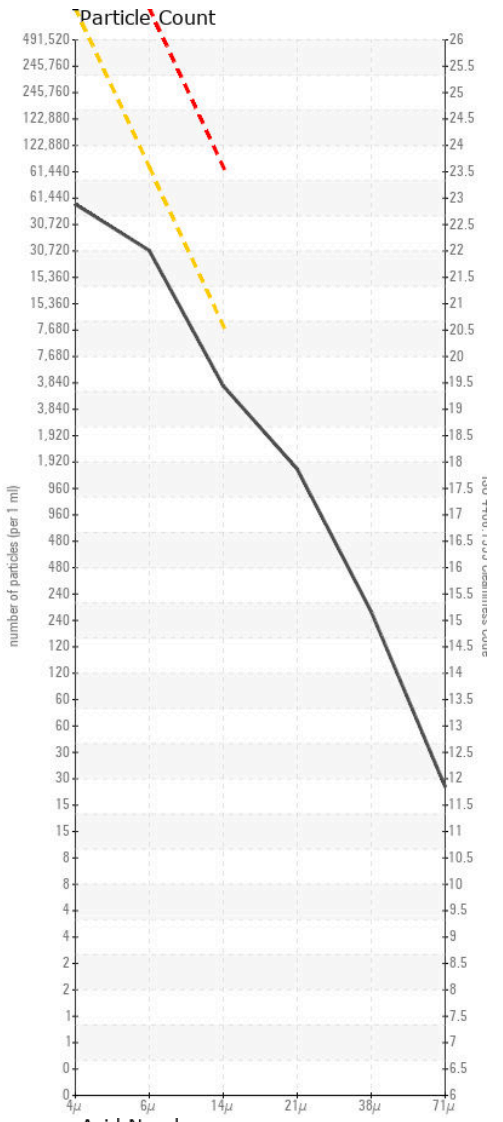
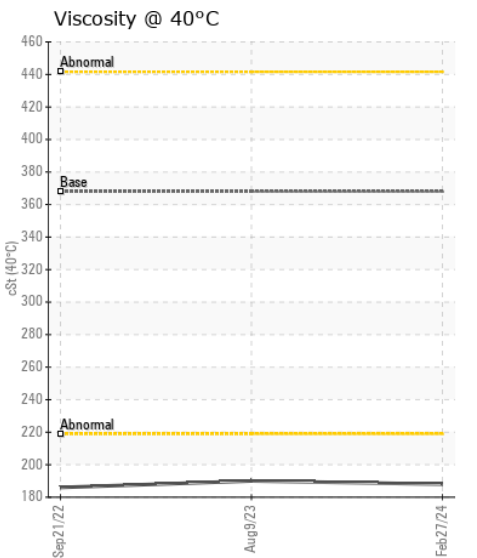
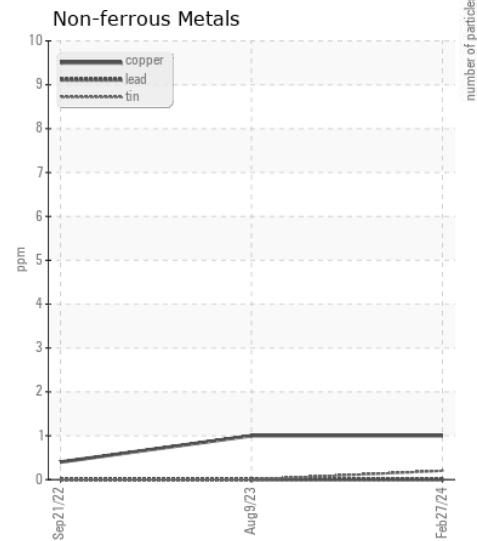
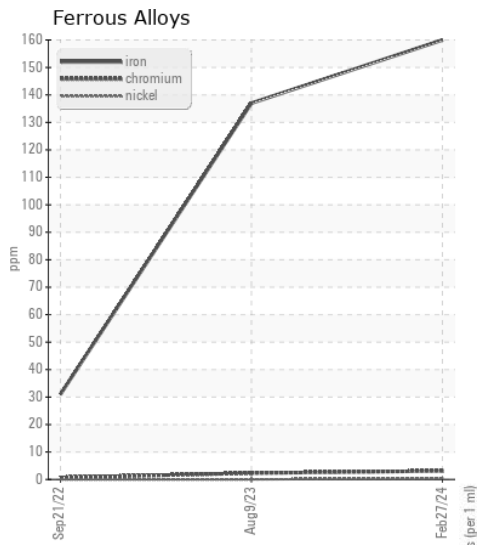
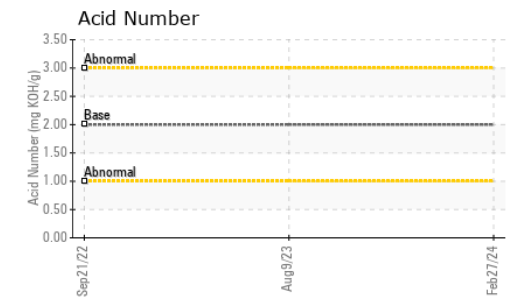
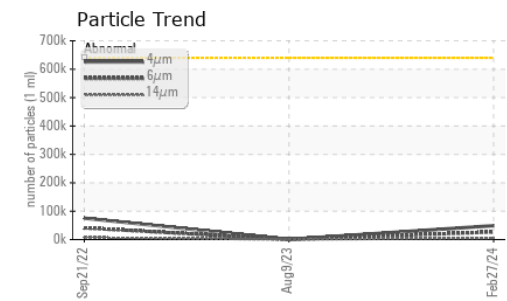
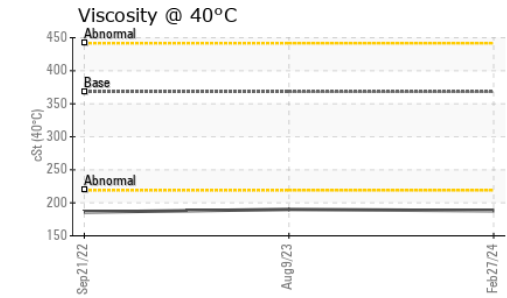
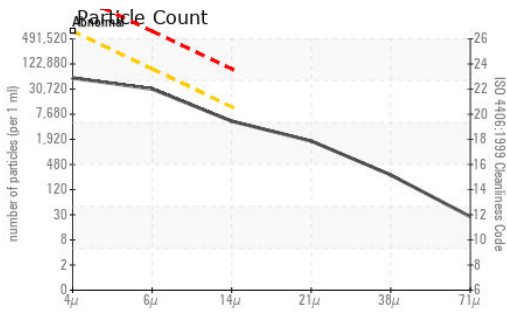
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>17</b>	16	11
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	0
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>640000	<b>49092</b>	713	75461
Particles >6µm		ASTM D7647	>80000	<b>26743</b>	389	41108
Particles >14µm		ASTM D7647	>10000	<b>4551</b>	66	6996
Particles >21µm		ASTM D7647	>2500	<b>1533</b>	22	2357
Particles >38µm		ASTM D7647	>640	<b>237</b>	3	364
Particles >71µm		ASTM D7647	>160	<b>24</b>	0	37
Oil Cleanliness		ISO 4406 (c)	>26/23/20	<b>23/22/19</b>	17/16/13	23/23/20
Silt	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	LIGHT
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	>0.075	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	<b>&lt;1</b>	<1	<1
Boron	ppm	ASTM D5185m	400	<b>68</b>	80	91
Barium	ppm	ASTM D5185m	200	<b>6</b>	0	6
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>4</b>	3	1
Magnesium	ppm	ASTM D5185m	12	<b>2</b>	3	0
Calcium	ppm	ASTM D5185m	150	<b>18</b>	33	26
Phosphorus	ppm	ASTM D5185m	1650	<b>518</b>	523	546
Zinc	ppm	ASTM D5185m	125	<b>25</b>	24	16
Sulfur	ppm	ASTM D5185m	22500	<b>16794</b>	18139	18453
Visc @ 40°C	cSt	ASTM D445	368	<b>188</b>	190	186



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0902854 **Received** : 29 Feb 2024  
**Lab Number** : 06104224 **Tested** : 05 Mar 2024  
**Unique Number** : 10902454 **Diagnosed** : 05 Mar 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: PrtCount )

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)

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