



# OIL ANALYSIS REPORT

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

Area

**Contracting**

Machine Id

**5525 5525**

Component

**Right Final Drive**

Fluid

**GEAR OIL SAE 75W90 (1 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0918635</b>	WC0688156	WC0545082
Sample Date		Client Info		<b>18 Mar 2024</b>	10 May 2022	22 Apr 2021
Machine Age	hrs	Client Info		<b>5456</b>	3759	2728
Oil Age	hrs	Client Info		<b>519</b>	1031	1529
Filter Age	hrs	Client Info		<b>519</b>	0	0
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Chngd</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>750	<b>330</b>	401	557
Chromium	ppm	ASTM D5185m	>9	<b>8</b>	7	10
Nickel	ppm	ASTM D5185m	>10	<b>3</b>	2	7
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	<1	1
Aluminum	ppm	ASTM D5185m	>40	<b>5</b>	10	16
Lead	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>40	<b>2</b>	4	4
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>MODER</b>	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

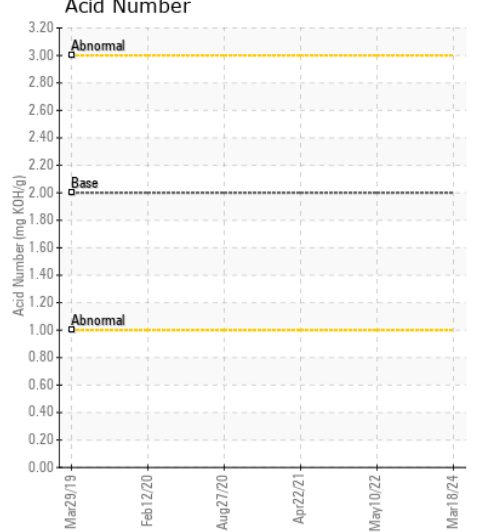
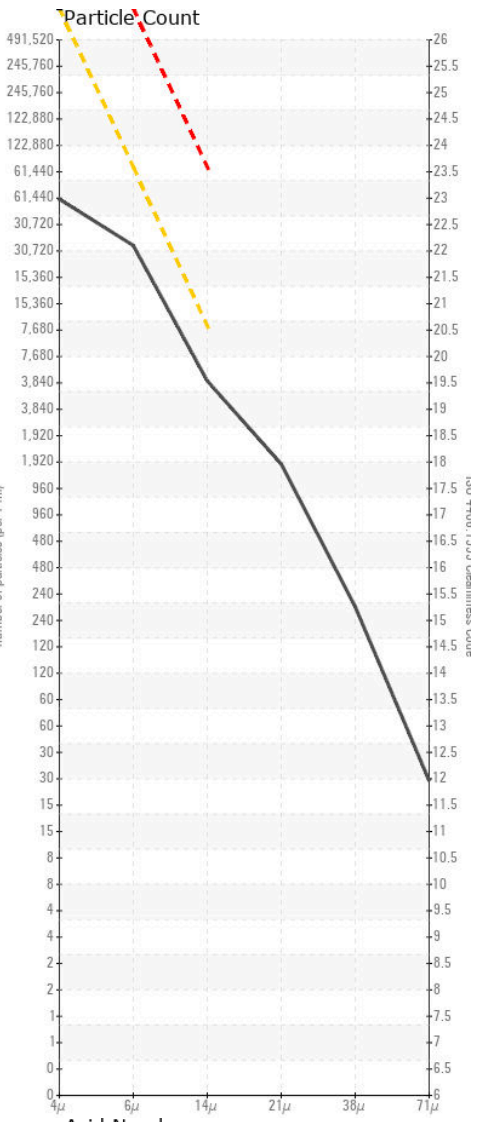
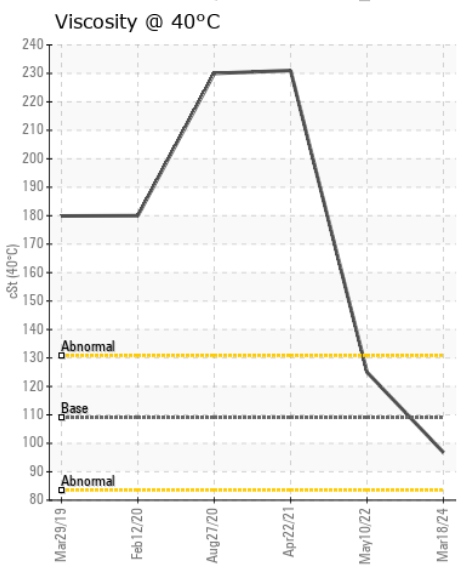
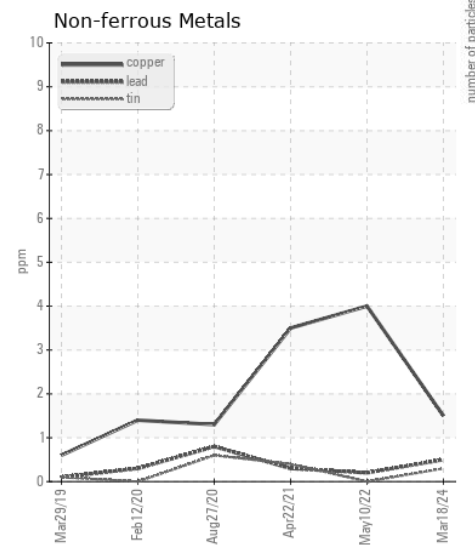
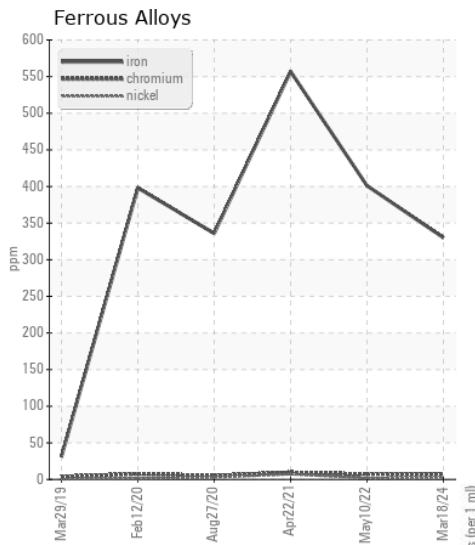
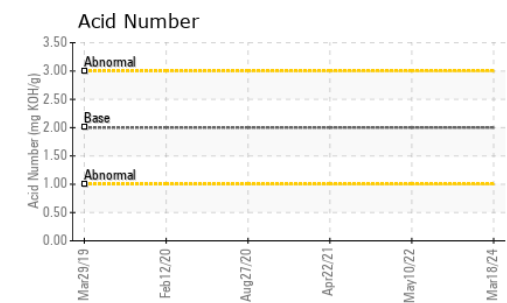
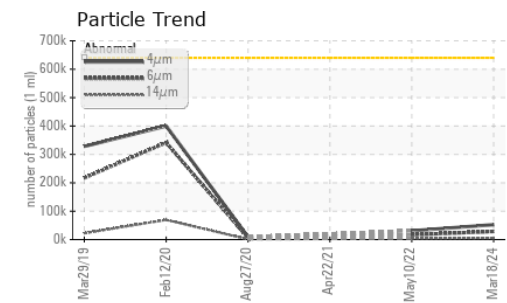
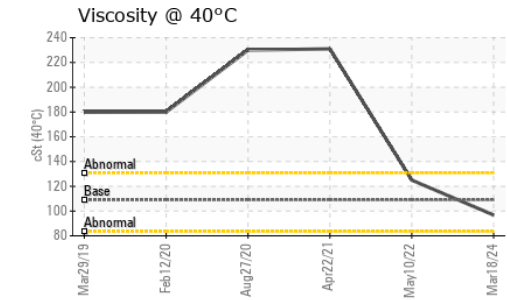
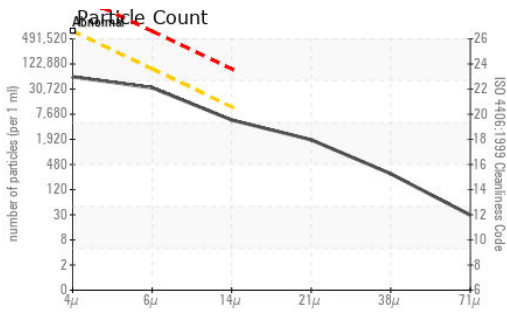
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>75	<b>24</b>	41	65
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	3	5
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>640000	<b>52459</b>	30816	---
Particles >6µm		ASTM D7647	>80000	<b>28577</b>	16787	---
Particles >14µm		ASTM D7647	>10000	<b>4864</b>	2857	---
Particles >21µm		ASTM D7647	>2500	<b>1638</b>	962	---
Particles >38µm		ASTM D7647	>640	<b>253</b>	149	---
Particles >71µm		ASTM D7647	>160	<b>26</b>	15	---
Oil Cleanliness		ISO 4406 (c)	>26/23/20	<b>23/22/19</b>	22/21/19	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	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	>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>2</b>	1	5
Boron	ppm	ASTM D5185m	400	<b>156</b>	181	110
Barium	ppm	ASTM D5185m	200	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	12	<b>4</b>	6	1
Manganese	ppm	ASTM D5185m		<b>5</b>	5	8
Magnesium	ppm	ASTM D5185m	12	<b>37</b>	57	7
Calcium	ppm	ASTM D5185m	150	<b>155</b>	181	53
Phosphorus	ppm	ASTM D5185m	1650	<b>1119</b>	1158	739
Zinc	ppm	ASTM D5185m	125	<b>137</b>	233	234
Sulfur	ppm	ASTM D5185m	22500	<b>22646</b>	16203	17640
Visc @ 40°C	cSt	ASTM D445	109	<b>96.8</b>	125	231



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0918635 **Received** : 20 Mar 2024  
**Lab Number** : 06123529 **Tested** : 25 Mar 2024  
**Unique Number** : 10937680 **Diagnosed** : 25 Mar 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: PrtCount )

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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)