



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area

Contracting

Machine Id

5533 5533

Component

Right Final Drive

Fluid

GEAR OIL SAE 75W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0861723	WC0809009	WC0744794
Sample Date		Client Info		08 Jan 2024	18 May 2023	17 Oct 2022
Machine Age	hrs	Client Info		1842	1164	602
Oil Age	hrs	Client Info		678	662	602
Filter Age	hrs	Client Info		678	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>750	314	573	▲ 457
Chromium	ppm	ASTM D5185m	>9	4	7	5
Nickel	ppm	ASTM D5185m	>10	1	3	<1
Titanium	ppm	ASTM D5185m		<1	2	2
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	1	5	4
Lead	ppm	ASTM D5185m	>15	0	<1	0
Copper	ppm	ASTM D5185m	>40	<1	2	2
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	MODER	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

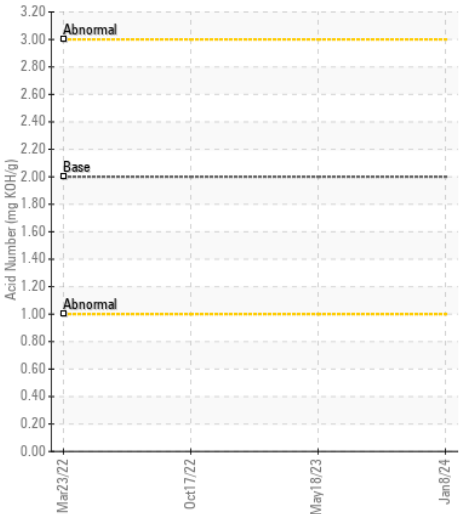
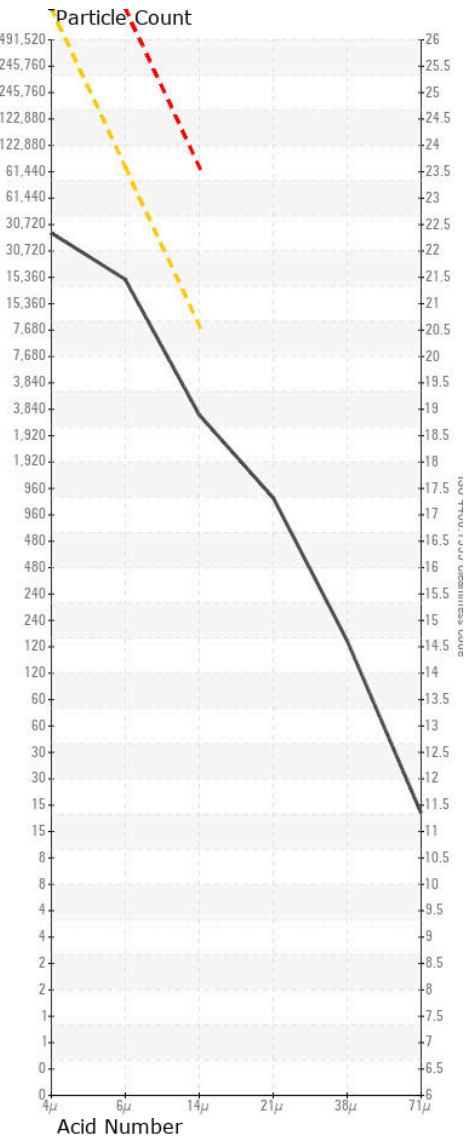
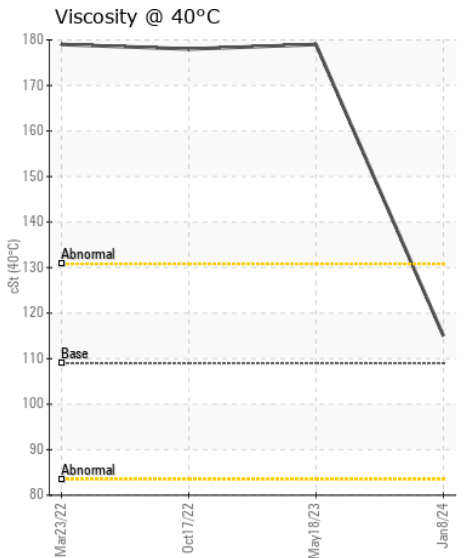
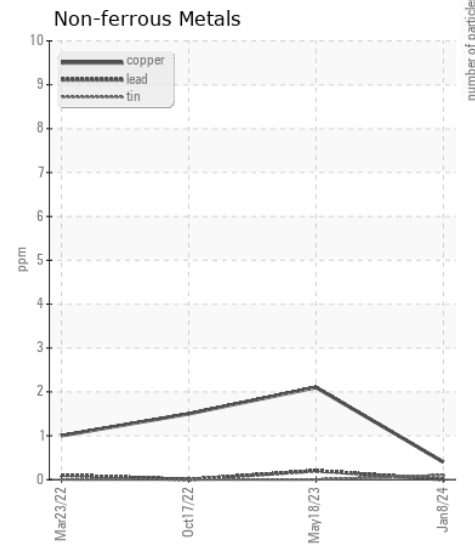
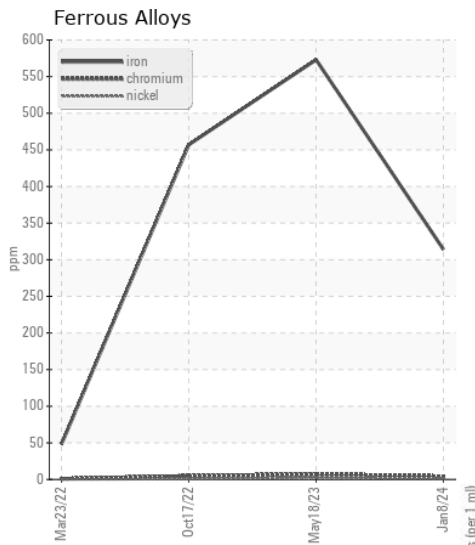
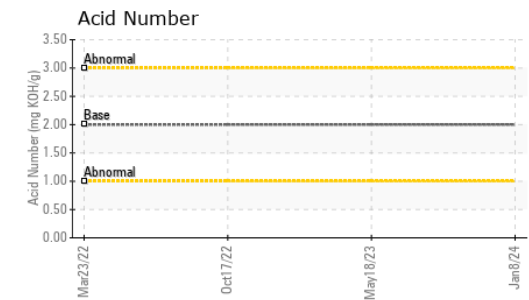
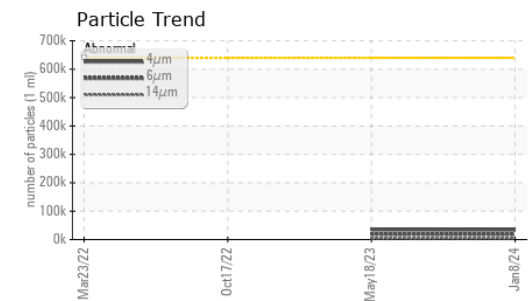
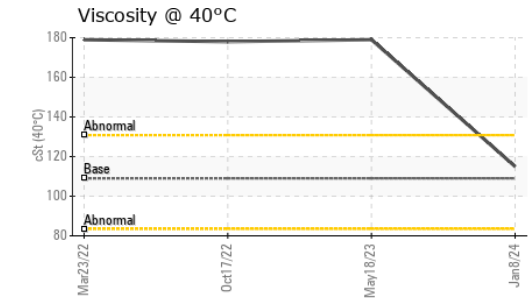
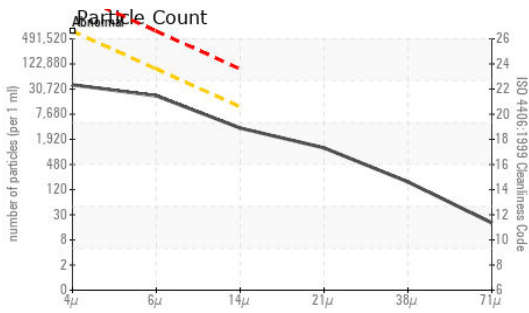
Moderate concentration of visible dirt/debris present in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>75	11	20	17
Potassium	ppm	ASTM D5185m	>20	1	2	0
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>640000	33650	34224	---
Particles >6µm		ASTM D7647	>80000	18331	18644	---
Particles >14µm		ASTM D7647	>10000	3120	3173	---
Particles >21µm		ASTM D7647	>2500	1051	1069	---
Particles >38µm		ASTM D7647	>640	162	165	---
Particles >71µm		ASTM D7647	>160	17	17	---
Oil Cleanliness		ISO 4406 (c)	>26/23/20	22/21/19	22/21/19	---
Silt	scalar	*Visual	NONE	NONE	HEAVY	NONE
Debris	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	<1	2	2
Boron	ppm	ASTM D5185m	400	37	57	52
Barium	ppm	ASTM D5185m	200	11	67	12
Molybdenum	ppm	ASTM D5185m	12	0	<1	0
Manganese	ppm	ASTM D5185m		3	6	6
Magnesium	ppm	ASTM D5185m	12	6	3	0
Calcium	ppm	ASTM D5185m	150	38	48	16
Phosphorus	ppm	ASTM D5185m	1650	727	499	462
Zinc	ppm	ASTM D5185m	125	38	120	80
Sulfur	ppm	ASTM D5185m	22500	19117	17032	17264
Visc @ 40°C	cSt	ASTM D445	109	115	179	178



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0861723 **Received** : 10 Jan 2024
Lab Number : 06056571 **Diagnosed** : 11 Jan 2024
Unique Number : 10822520 **Diagnostician** : Don Baldrige
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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