



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area

Contracting

Machine Id

4406 4406

Component

Differential

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		WC0919118	WC0867119	WC0784636
Sample Date		Client Info		11 Apr 2024	14 Nov 2023	18 Aug 2023
Machine Age	hrs	Client Info		5731	4974	4397
Oil Age	hrs	Client Info		2252	1495	918
Filter Age	hrs	Client Info		0	1495	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ATTENTION	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	51	116	104
Chromium	ppm	ASTM D5185m	>10	0	1	1
Nickel	ppm	ASTM D5185m	>10	<1	1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	2
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m	>100	0	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

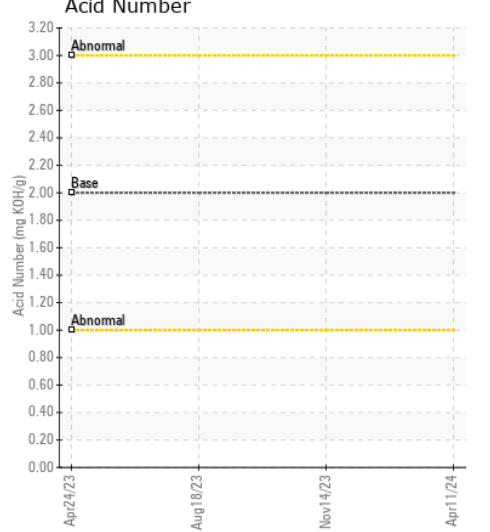
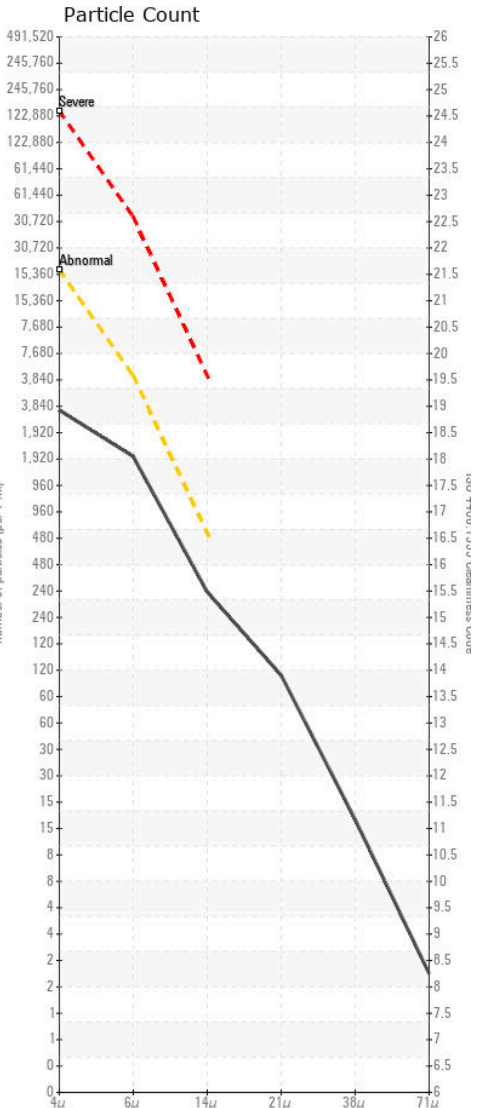
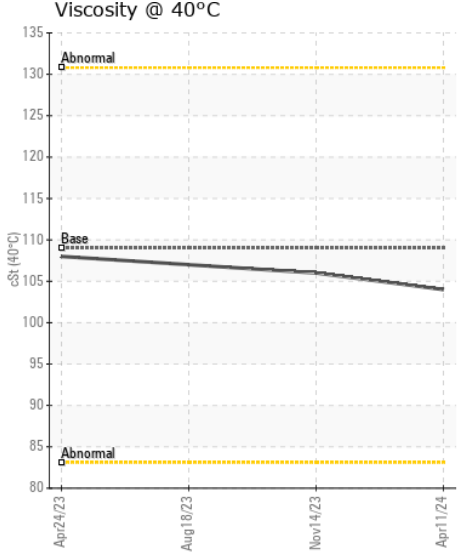
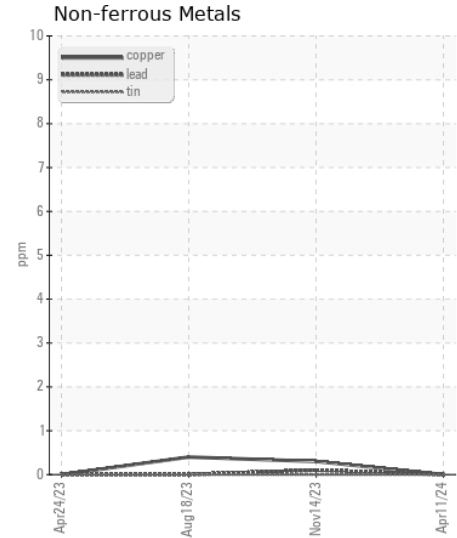
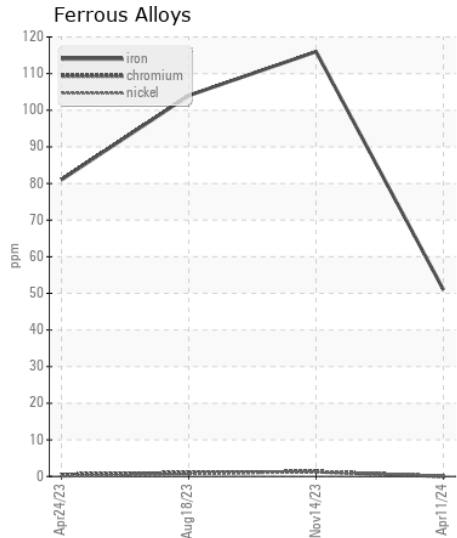
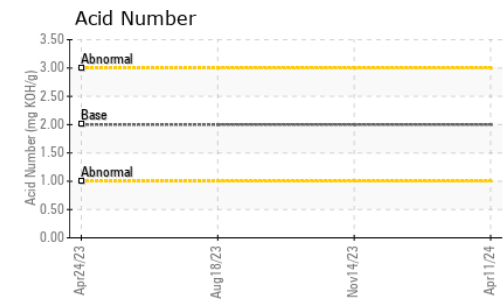
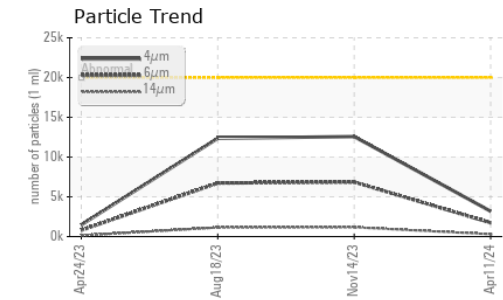
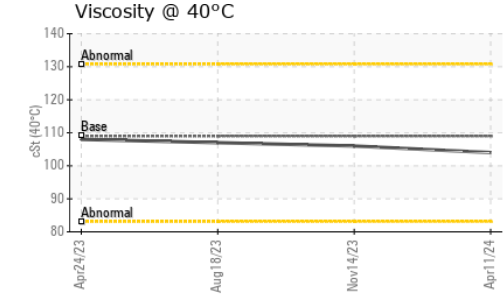
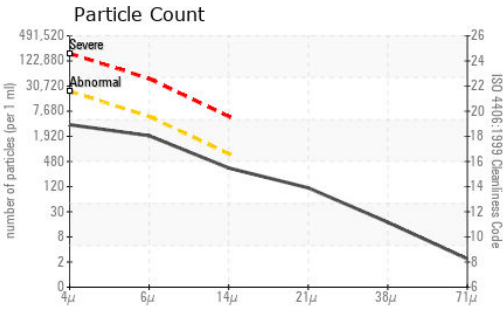
Moderate concentration of visible dirt/debris present in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>75	11	48	31
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Water		WC Method	>.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	3184	12580	12362
Particles >6µm		ASTM D7647	>5000	1735	6853	6734
Particles >14µm		ASTM D7647	>640	295	1166	1146
Particles >21µm		ASTM D7647	>160	99	393	386
Particles >38µm		ASTM D7647	>40	15	61	60
Particles >71µm		ASTM D7647	>10	2	6	6
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/18/15	21/20/17	21/20/17
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	NONE	▲ HEAVY
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	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	0	1
Boron	ppm	ASTM D5185m	400	261	58	60
Barium	ppm	ASTM D5185m	200	0	7	0
Molybdenum	ppm	ASTM D5185m	12	0	<1	<1
Manganese	ppm	ASTM D5185m		<1	1	2
Magnesium	ppm	ASTM D5185m	12	14	9	9
Calcium	ppm	ASTM D5185m	150	42	36	37
Phosphorus	ppm	ASTM D5185m	1650	1361	760	743
Zinc	ppm	ASTM D5185m	125	17	22	23
Sulfur	ppm	ASTM D5185m	22500	27861	23685	23736
Visc @ 40°C	cSt	ASTM D445	109	104	106	107



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0919118 **Received** : 15 Apr 2024
Lab Number : 06148540 **Tested** : 17 Apr 2024
Unique Number : 10978618 **Diagnosed** : 17 Apr 2024 - 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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