



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
8117 8117
 Component
Front Differential
 Fluid
GEAR OIL SAE 75W90 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0947918	---	---
Sample Date		Client Info		27 Jun 2024	---	---
Machine Age	hrs	Client Info		25	---	---
Oil Age	hrs	Client Info		25	---	---
Filter Age	hrs	Client Info		25	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				ABNORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	27	---	---
Chromium	ppm	ASTM D5185m	>10	0	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	0	---	---
Lead	ppm	ASTM D5185m	>25	0	---	---
Copper	ppm	ASTM D5185m	>100	15	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

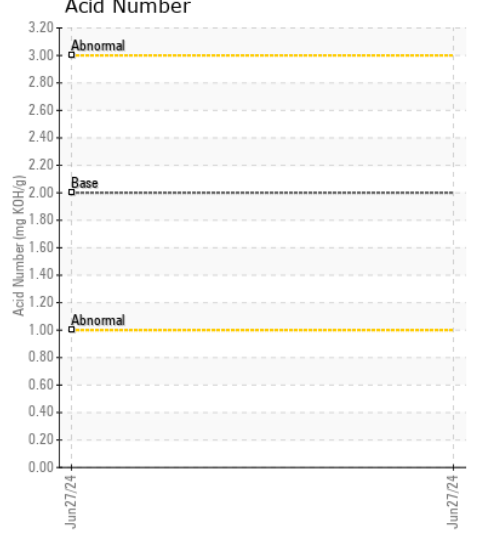
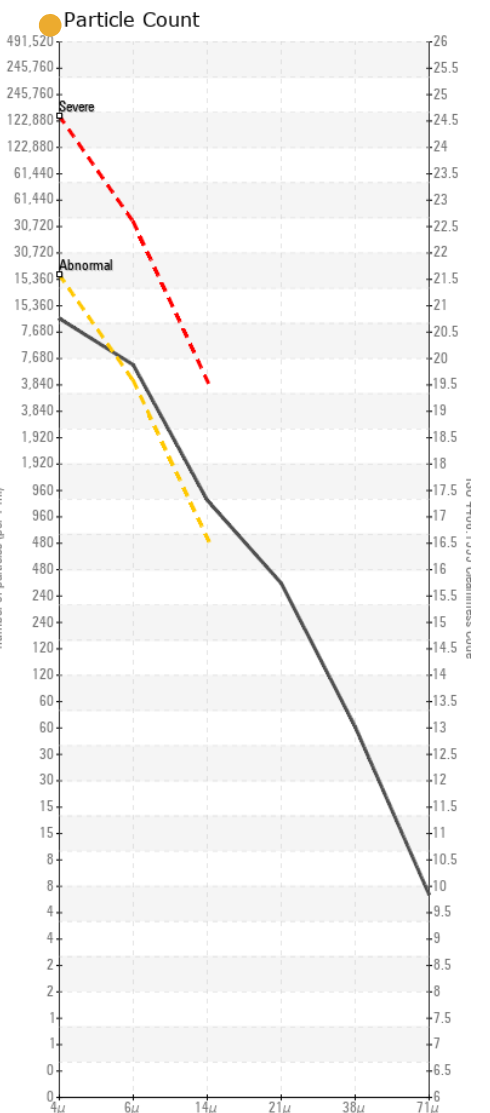
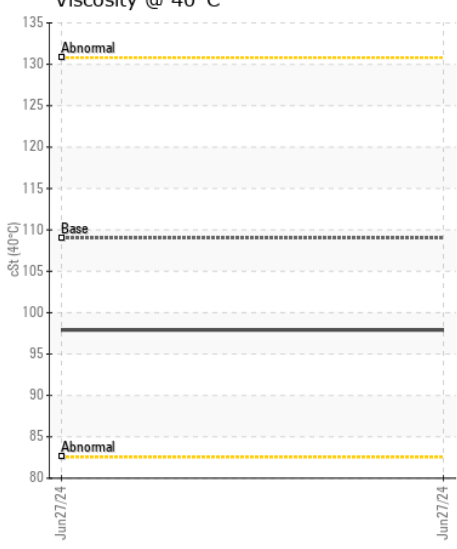
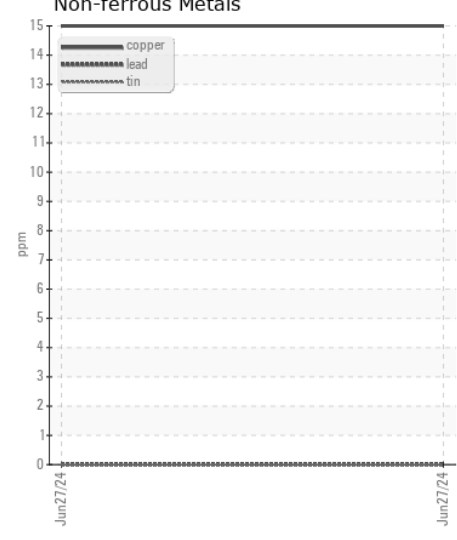
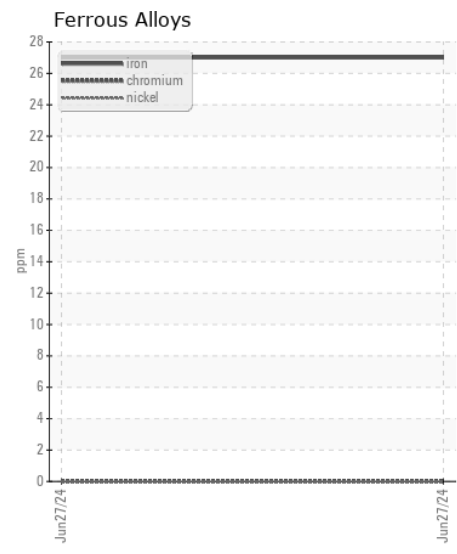
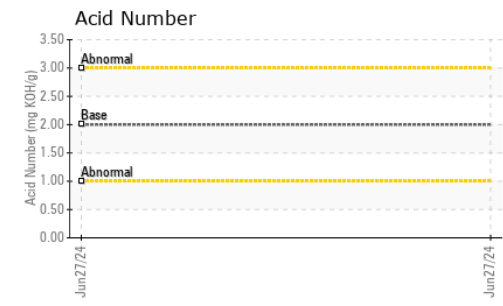
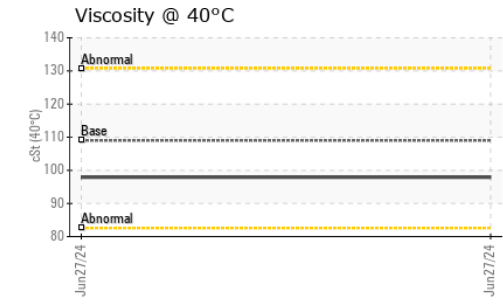
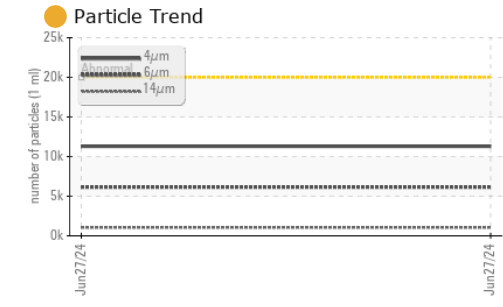
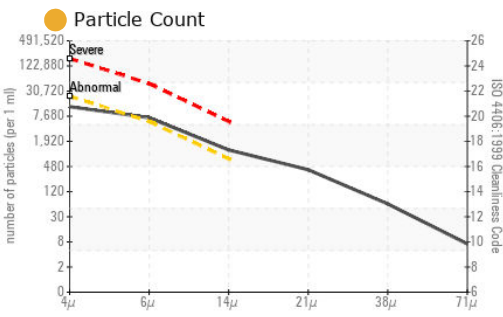
There is a moderate amount of particulates present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>75	10	---	---
Potassium	ppm	ASTM D5185m	>20	3	---	---
Water		WC Method	>.2	NEG	---	---
Particles >4µm		ASTM D7647	>20000	11292	---	---
Particles >6µm		ASTM D7647	>5000	6151	---	---
Particles >14µm		ASTM D7647	>640	1047	---	---
Particles >21µm		ASTM D7647	>160	353	---	---
Particles >38µm		ASTM D7647	>40	54	---	---
Particles >71µm		ASTM D7647	>10	6	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/20/17	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	MODER	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>.2	NEG	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		5	---	---
Boron	ppm	ASTM D5185m	400	233	---	---
Barium	ppm	ASTM D5185m	200	<1	---	---
Molybdenum	ppm	ASTM D5185m	12	0	---	---
Manganese	ppm	ASTM D5185m		6	---	---
Magnesium	ppm	ASTM D5185m	12	1	---	---
Calcium	ppm	ASTM D5185m	150	13	---	---
Phosphorus	ppm	ASTM D5185m	1650	1461	---	---
Zinc	ppm	ASTM D5185m	125	16	---	---
Sulfur	ppm	ASTM D5185m	22500	29602	---	---
Visc @ 40°C	cSt	ASTM D445	109	97.9	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0947918 **Received** : 02 Jul 2024
Lab Number : 06226092 **Tested** : 05 Jul 2024
Unique Number : 11109585 **Diagnosed** : 05 Jul 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)