



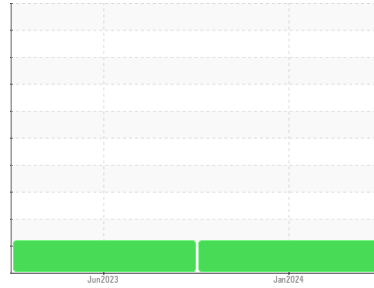
OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area
DAYTON FREIGHT
 Machine Id
DAYTON FREIGHT 423811
 Component
Rear Differential
 Fluid
{not provided} (--- GAL)



DIAGNOSIS

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

Wear
 All component wear rates are normal.

Contamination
 There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition
 The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0900833	WC0828705	---
Sample Date	Client Info		07 Jan 2024	23 Jun 2023	---
Machine Age	mls	Client Info	54401	51	---
Oil Age	mls	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	329	26	---
Chromium	ppm	ASTM D5185m >10	5	0	---
Nickel	ppm	ASTM D5185m >10	8	0	---
Titanium	ppm	ASTM D5185m	<1	0	---
Silver	ppm	ASTM D5185m	<1	0	---
Aluminum	ppm	ASTM D5185m >25	2	<1	---
Lead	ppm	ASTM D5185m >25	<1	0	---
Copper	ppm	ASTM D5185m >100	2	0	---
Tin	ppm	ASTM D5185m >10	<1	<1	---
Vanadium	ppm	ASTM D5185m	<1	<1	---
Cadmium	ppm	ASTM D5185m	<1	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	115	101	---
Barium	ppm	ASTM D5185m	<1	0	---
Molybdenum	ppm	ASTM D5185m	<1	0	---
Manganese	ppm	ASTM D5185m	15	2	---
Magnesium	ppm	ASTM D5185m	145	194	---
Calcium	ppm	ASTM D5185m	15	2	---
Phosphorus	ppm	ASTM D5185m	1623	1624	---
Zinc	ppm	ASTM D5185m	20	0	---
Sulfur	ppm	ASTM D5185m	24551	25056	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	37	5	---
Sodium	ppm	ASTM D5185m	2	0	---
Potassium	ppm	ASTM D5185m >20	2	0	---
Water	%	ASTM D6304 >.2	0.031	0.029	---
ppm Water	ppm	ASTM D6304 >2000	319	295.8	---

FLUID CLEANLINESS

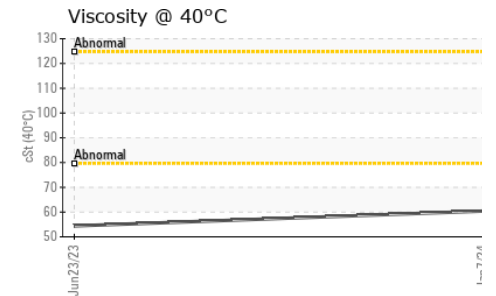
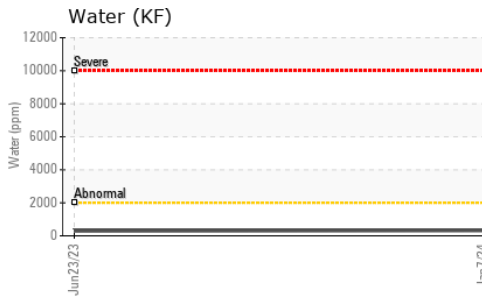
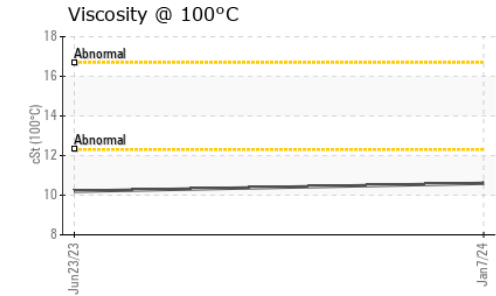
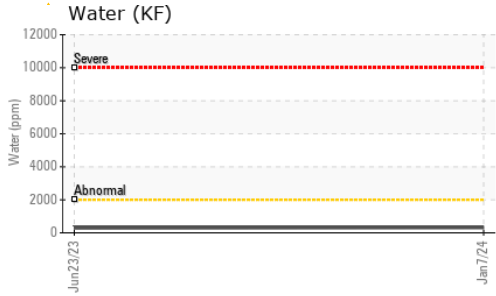
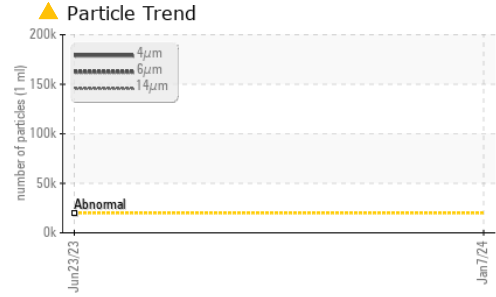
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 194001	---	---
Particles >6µm	ASTM D7647	>5000	▲ 18978	---	---
Particles >14µm	ASTM D7647	>640	144	---	---
Particles >21µm	ASTM D7647	>160	23	---	---
Particles >38µm	ASTM D7647	>40	1	---	---
Particles >71µm	ASTM D7647	>10	0	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 25/21/14	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.84	0.54	---



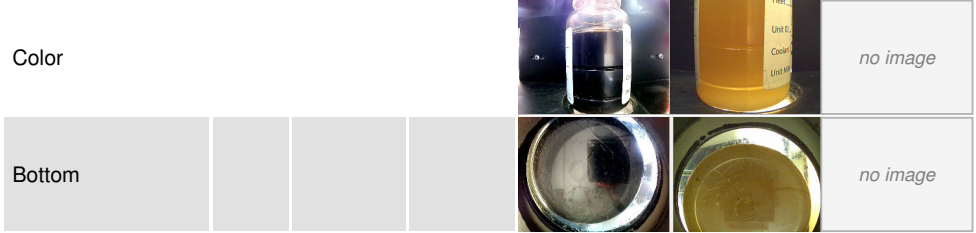
OIL ANALYSIS REPORT



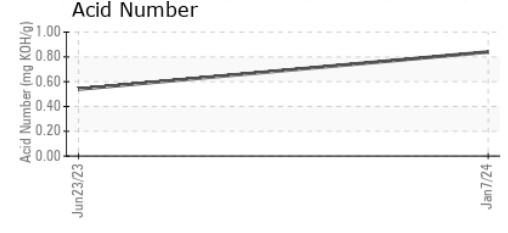
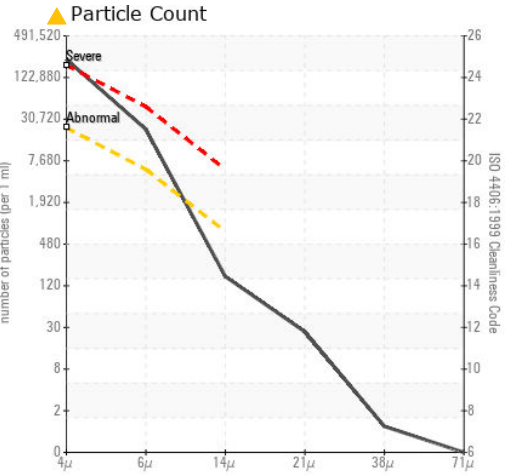
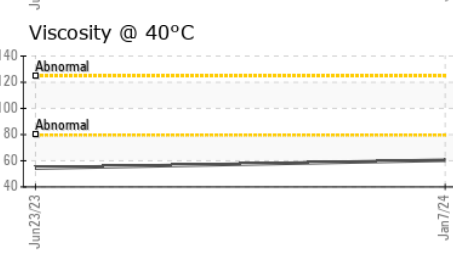
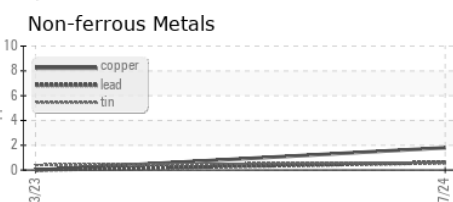
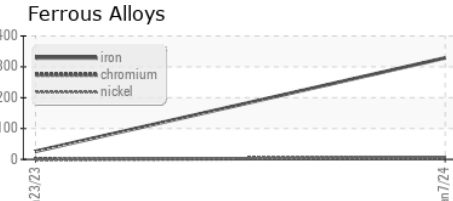
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	● HAZY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	60.4	54.4	---
Visc @ 100°C	cSt	ASTM D445	10.6	10.2	---
Viscosity Index (VI)	Scale	ASTM D2270	166	178	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0900833 **Received** : 27 Mar 2024
Lab Number : 06131400 **Tested** : 28 Mar 2024
Unique Number : 10950865 **Diagnosed** : 02 Apr 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

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Certificate L2367
 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)