



OIL ANALYSIS REPORT

Sample Rating Trend



Area
[5-23-24]

Machine Id
COLORADO TRANSFER (S/N N40-NMA)

Component
Gearbox

Fluid
OEM ATF (2 QTS)

DIAGNOSIS

▲ Recommendation

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

▲ Wear

The nickel level is abnormal.

▲ Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

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		WC0890375	---	---
Sample Date	Client Info		23 May 2024	---	---
Machine Age	mls	Client Info	70000	---	---
Oil Age	mls	Client Info	70000	---	---
Oil Changed	Client Info		Not Changed	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	178	---
Chromium	ppm	ASTM D5185m	>15	1	---
Nickel	ppm	ASTM D5185m	>15	▲ 18	---
Titanium	ppm	ASTM D5185m		<1	---
Silver	ppm	ASTM D5185m		0	---
Aluminum	ppm	ASTM D5185m	>25	8	---
Lead	ppm	ASTM D5185m	>100	1	---
Copper	ppm	ASTM D5185m	>200	51	---
Tin	ppm	ASTM D5185m	>25	<1	---
Vanadium	ppm	ASTM D5185m		<1	---
Cadmium	ppm	ASTM D5185m		<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		21	---
Barium	ppm	ASTM D5185m		7	---
Molybdenum	ppm	ASTM D5185m		<1	---
Manganese	ppm	ASTM D5185m		255	---
Magnesium	ppm	ASTM D5185m		<1	---
Calcium	ppm	ASTM D5185m		68	---
Phosphorus	ppm	ASTM D5185m		142	---
Zinc	ppm	ASTM D5185m		20	---
Sulfur	ppm	ASTM D5185m		1852	---

CONTAMINANTS

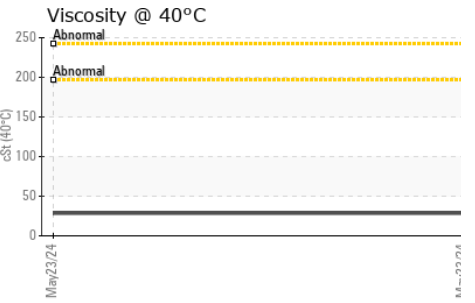
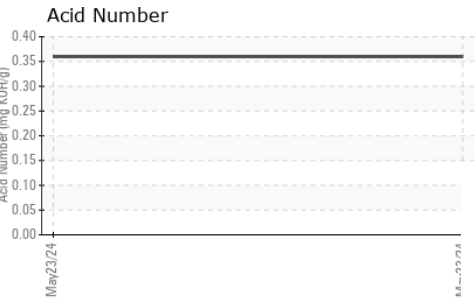
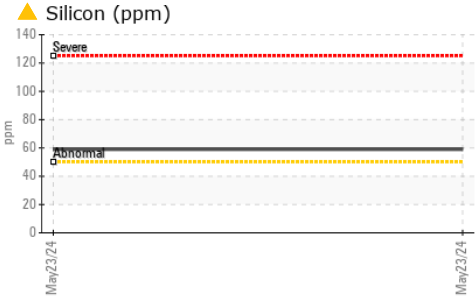
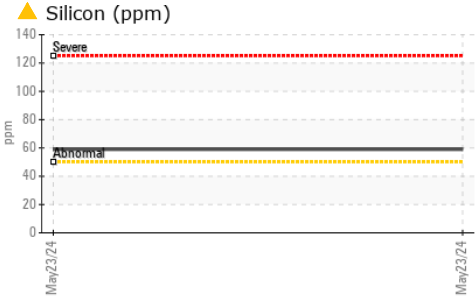
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	▲ 59	---
Sodium	ppm	ASTM D5185m		12	---
Potassium	ppm	ASTM D5185m	>20	9	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.36	---



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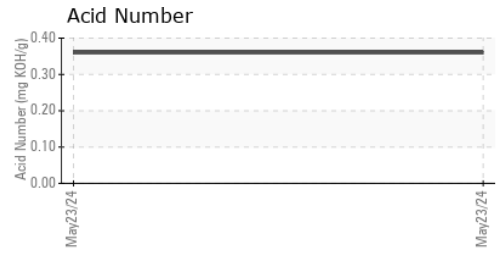
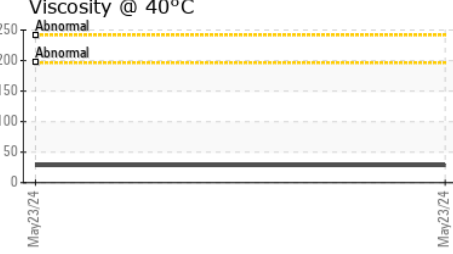
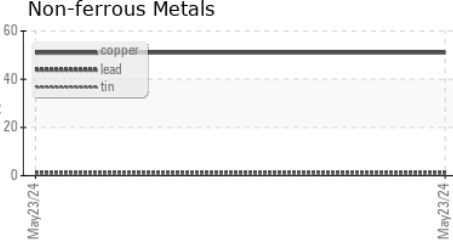
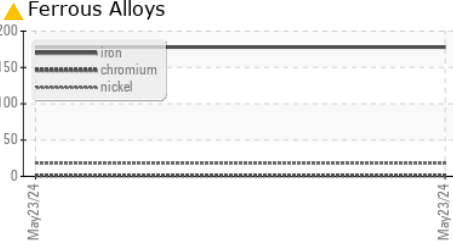
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	28.5	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0890375 **Received** : 03 Jun 2024
Lab Number : 06198307 **Tested** : 04 Jun 2024
Unique Number : 11060430 **Diagnosed** : 05 Jun 2024 - Jonathan Hester
Test Package : IND 2

MONTAGUE TOOL & SUPPLY
 42 BROAD STREET
 BRANCHVILLE, NJ
 US 07826
 Contact: DAVE VONDOEHREN
 dvond56@outlook.com

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)