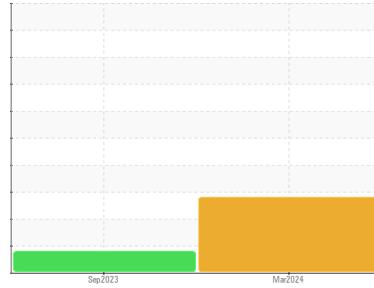


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
CONNWELD 8X20 4 DECK CONNWELD WEST SCREEN CENTER TUBE (S/N 1-1910008)
 Component
Gearbox
 Fluid
DA SYNTHETIC ISO 150 (--- GAL)

DIAGNOSIS

▲ Recommendation
 The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

▲ Wear
 Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

Contamination
 There is no indication of any contamination 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		TO10003361	TO10002050	---
Sample Date	Client Info		11 Mar 2024	28 Sep 2023	---
Machine Age	hrs	Client Info	9000	800	---
Oil Age	hrs	Client Info	1000	0	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ABNORMAL	ABNORMAL	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		▲ 166	98	---
Iron	ppm	ASTM D5185m >200	▲ 330	▲ 410	---
Chromium	ppm	ASTM D5185m >15	2	3	---
Nickel	ppm	ASTM D5185m >15	0	1	---
Titanium	ppm	ASTM D5185m	0	0	---
Silver	ppm	ASTM D5185m	2	0	---
Aluminum	ppm	ASTM D5185m >25	<1	0	---
Lead	ppm	ASTM D5185m >100	0	<1	---
Copper	ppm	ASTM D5185m >200	1	<1	---
Tin	ppm	ASTM D5185m >25	0	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	4	0	---
Manganese	ppm	ASTM D5185m	3	4	---
Magnesium	ppm	ASTM D5185m	3	1	---
Calcium	ppm	ASTM D5185m	18	4	---
Phosphorus	ppm	ASTM D5185m	167	140	---
Zinc	ppm	ASTM D5185m	<1	5	---
Sulfur	ppm	ASTM D5185m	11937	4751	---

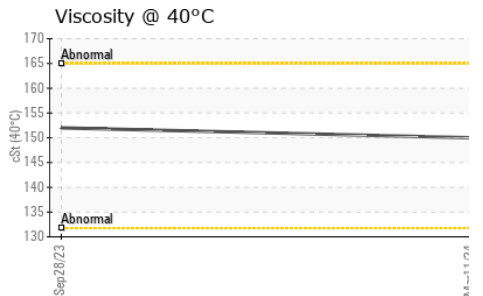
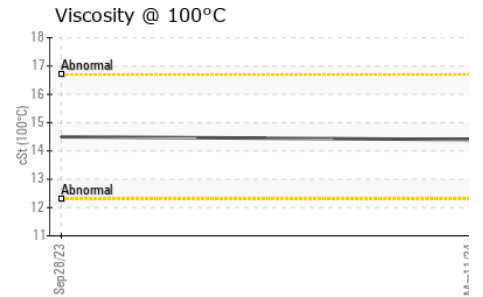
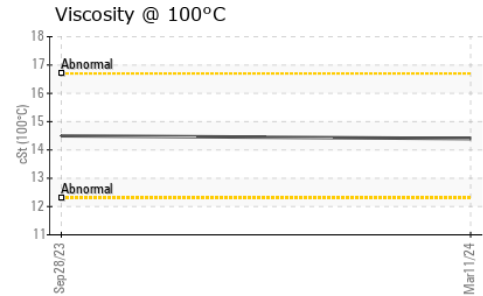
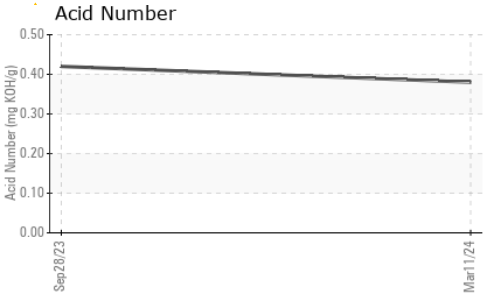
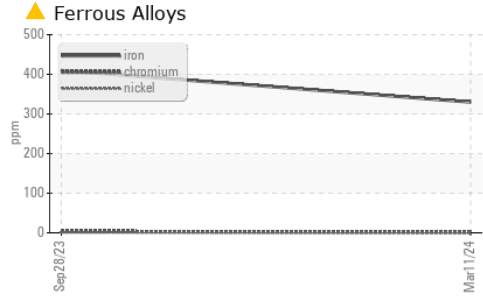
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	4	3	---
Sodium	ppm	ASTM D5185m	2	0	---
Potassium	ppm	ASTM D5185m >20	0	1	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.38	0.42	---

OIL ANALYSIS REPORT



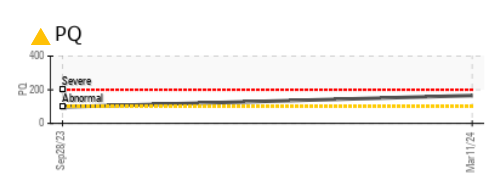
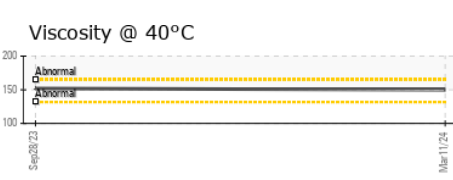
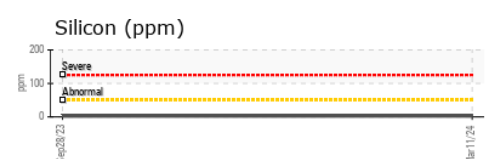
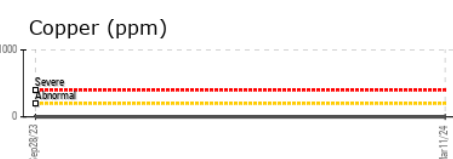
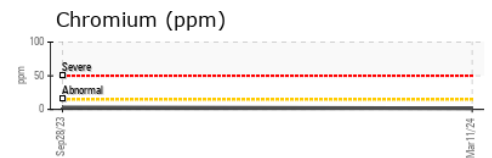
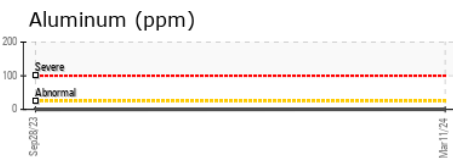
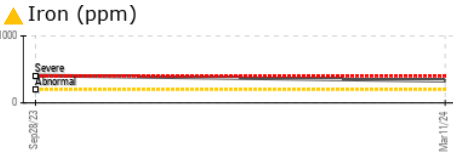
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	150	152	---
Visc @ 100°C	cSt	ASTM D445	14.4	14.5	---
Viscosity Index (VI)	Scale	ASTM D2270	93	93	---

SAMPLE IMAGES

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10003361 **Received** : 19 Mar 2024
Lab Number : 06123222 **Tested** : 20 Mar 2024
Unique Number : 10937373 **Diagnosed** : 22 Mar 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: KV100, PQ, VI)

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 TULSA, OK
 US 74137
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 F:

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)