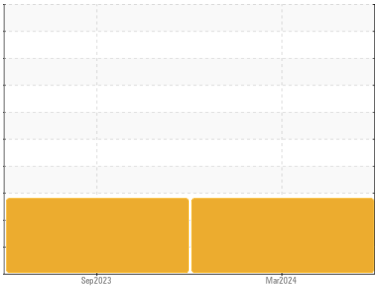
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
CONNWELD 8X20 4 DECK CONNWELD WEST SCREEN SOUTH 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**TO10003360**	TO10002048	---
Sample Date		Client Info		**11 Mar 2024**	02 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		▲ **365**	▲ 161	---
Iron	ppm	ASTM D5185m	>200	▲ **708**	▲ 845	---
Chromium	ppm	ASTM D5185m	>15	**5**	8	---
Nickel	ppm	ASTM D5185m	>15	**<1**	2	---
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>25	**2**	0	---
Lead	ppm	ASTM D5185m	>100	**0**	<1	---
Copper	ppm	ASTM D5185m	>200	**9**	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		**7**	8	---
Magnesium	ppm	ASTM D5185m		**6**	1	---
Calcium	ppm	ASTM D5185m		**56**	4	---
Phosphorus	ppm	ASTM D5185m		**172**	138	---
Zinc	ppm	ASTM D5185m		**9**	5	---
Sulfur	ppm	ASTM D5185m		**11908**	4631	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**13**	6	---
Sodium	ppm	ASTM D5185m		**14**	0	---
Potassium	ppm	ASTM D5185m	>20	**0**	2	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.37**	0.40	---

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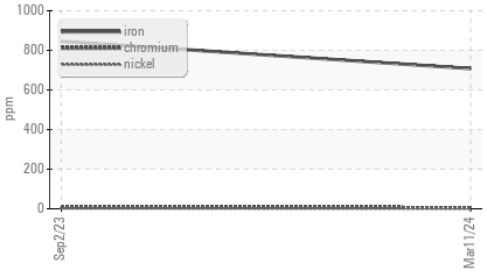
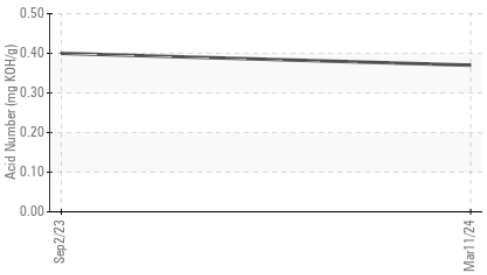
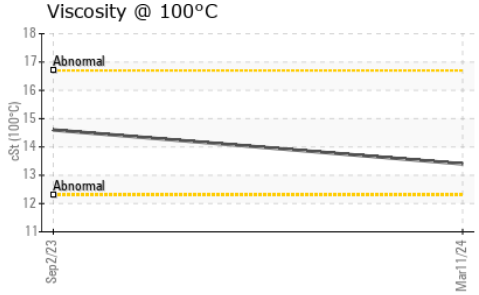
Ferrous Alloys



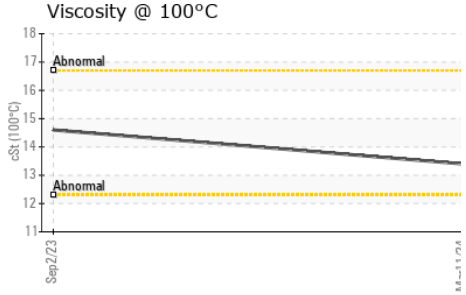
Acid Number



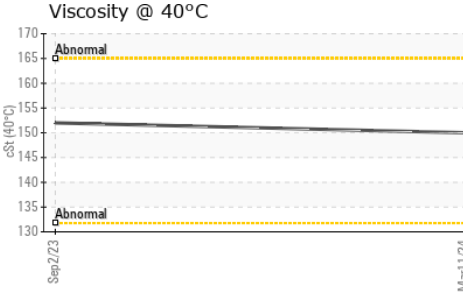
Viscosity @ 100°C



Viscosity @ 100°C



Viscosity @ 40°C



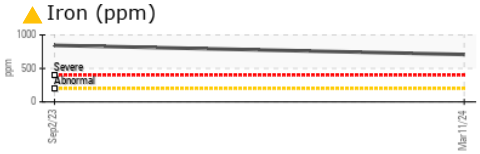
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**150**	152	---
Visc @ 100°C	cSt	ASTM D445		**13.4**	14.6	---
Viscosity Index (VI)	Scale	ASTM D2270		**80**	94	---

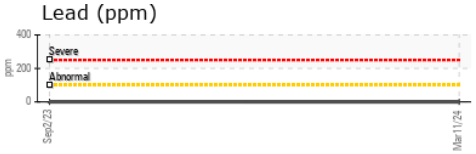
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*		*no image*
Bottom			*no image*		*no image*

GRAPHS

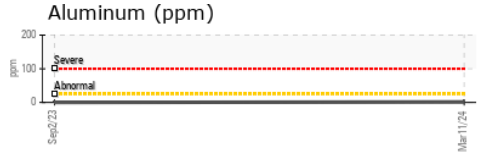
Iron (ppm)



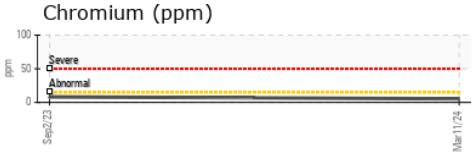
Lead (ppm)



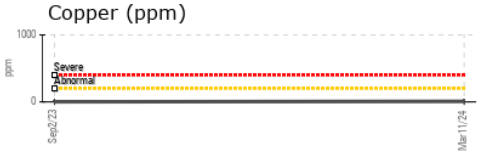
Aluminum (ppm)



Chromium (ppm)

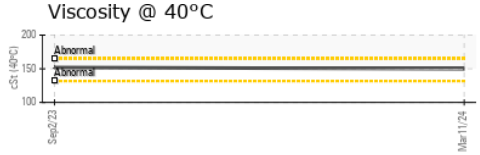


Copper (ppm)

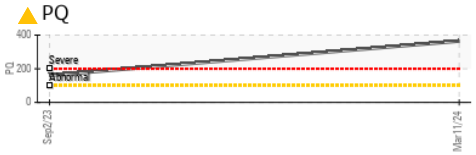


Silicon (ppm)

Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10003360
Lab Number : 06123226
Unique Number : 10937377
Test Package : MOB 2 (Additional Tests: KV100, PQ, VI)

Received : 19 Mar 2024
Tested : 20 Mar 2024
Diagnosed : 22 Mar 2024 - Jonathan Hester

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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