



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
VSW41-10109

Component
Gearbox

Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0197522	JR0181683	---
Sample Date		Client Info		16 Jan 2024	03 Aug 2023	---
Machine Age	hrs	Client Info		10253	9718	---
Oil Age	hrs	Client Info		327	261	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Changed	---
Filter Changed		Client Info		None	Changed	---
Sample Status				NORMAL	SEVERE	---

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		11	59	---
Iron	ppm	ASTM D5185m	>200	3	461	---
Chromium	ppm	ASTM D5185m	>10	0	4	---
Nickel	ppm	ASTM D5185m	>10	0	1	---
Titanium	ppm	ASTM D5185m		0	1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	0	21	---
Lead	ppm	ASTM D5185m	>50	<1	0	---
Copper	ppm	ASTM D5185m	>200	0	<1	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

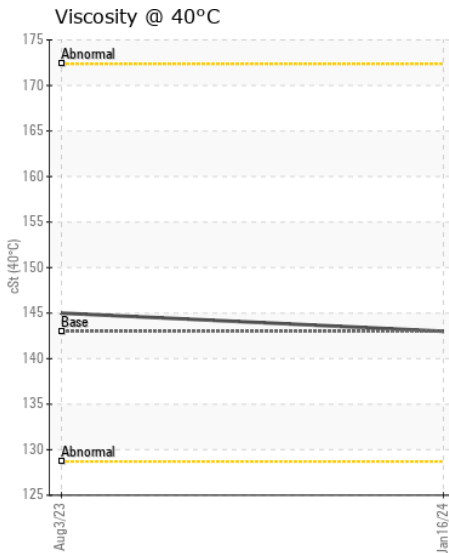
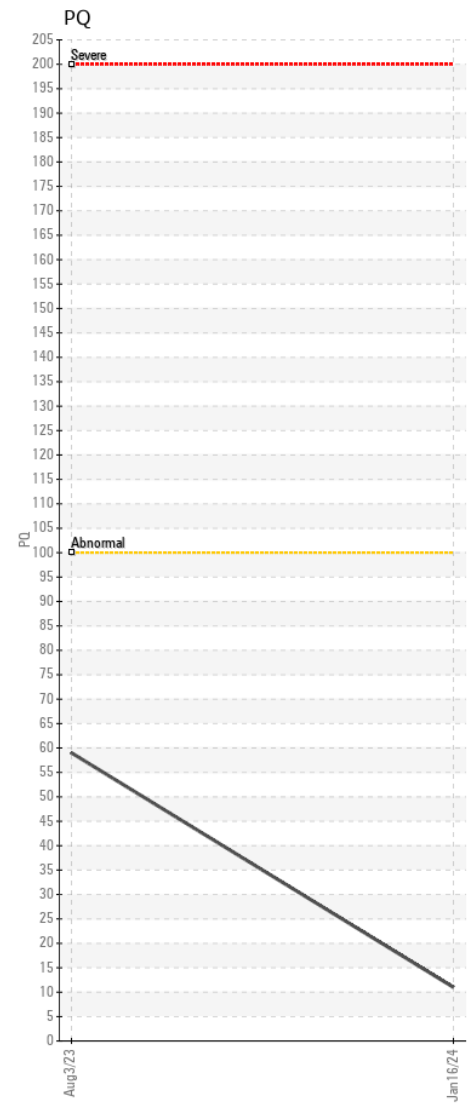
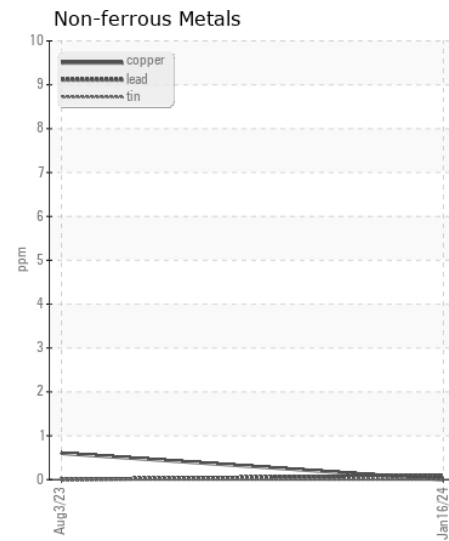
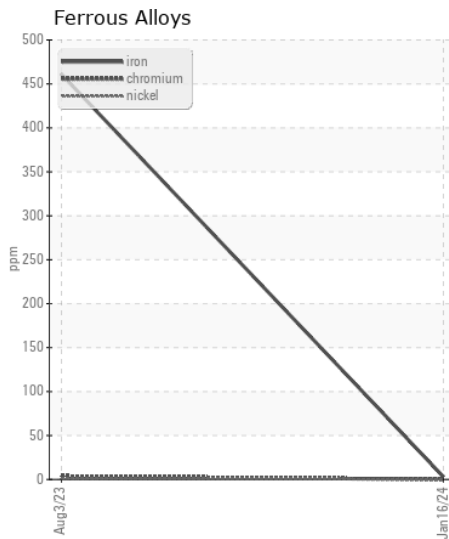
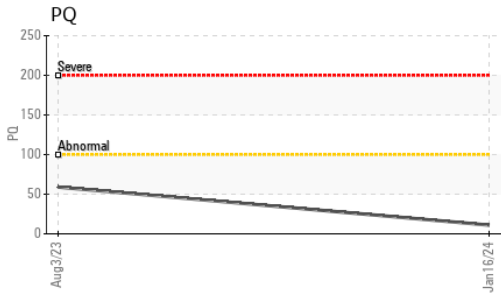
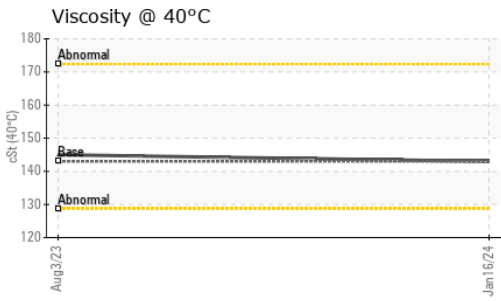
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>50	1	52	---
Potassium	ppm	ASTM D5185m	>20	<1	4	---
Water		WC Method	>0.2	NEG	NEG	---
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	---

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m	>170	0	4	---
Boron	ppm	ASTM D5185m	400	0	149	---
Barium	ppm	ASTM D5185m	200	0	0	---
Molybdenum	ppm	ASTM D5185m	12	0	<1	---
Manganese	ppm	ASTM D5185m		0	4	---
Magnesium	ppm	ASTM D5185m	12	0	2	---
Calcium	ppm	ASTM D5185m	150	15	8	---
Phosphorus	ppm	ASTM D5185m	1650	334	1017	---
Zinc	ppm	ASTM D5185m	125	0	26	---
Sulfur	ppm	ASTM D5185m	22500	20662	23167	---
Visc @ 40°C	cSt	ASTM D445	143	143	145	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0197522 **Received** : 18 Jan 2024
Lab Number : 06064553 **Diagnosed** : 21 Jan 2024
Unique Number : 10835935 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - GARNER
 4161 AUBURN CHURCH RD
 GARNER, NC
 US 27529

Contact: RALEIGH SHOP
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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)

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