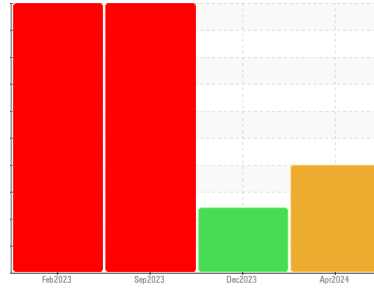




OIL ANALYSIS REPORT

Machine Id
40-106
 Component
Left Final Drive
 Fluid
GEAR OIL SAE 80W90 (--- GAL)

Sample Rating Trend



WATER



DIAGNOSIS

▲ Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

● Wear

All component wear rates are normal.

▲ Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0936930	WC0838009	WC0733215
Sample Date	Client Info		16 Apr 2024	11 Dec 2023	13 Sep 2023
Machine Age	hrs	Client Info	5077	5031	4913
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	SEVERE

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	625	630	▲ 8716
Chromium	ppm	ASTM D5185m >10	2	3	▲ 44
Nickel	ppm	ASTM D5185m >5	1	<1	20
Titanium	ppm	ASTM D5185m >15	4	6	95
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >75	● 74	● 92	● 1549
Lead	ppm	ASTM D5185m >10	0	0	3
Copper	ppm	ASTM D5185m >75	<1	<1	21
Tin	ppm	ASTM D5185m >8	0	<1	0
Vanadium	ppm	ASTM D5185m	0	<1	4
Cadmium	ppm	ASTM D5185m	0	0	2

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 400	0	<1	33
Barium	ppm	ASTM D5185m 200	<1	<1	6
Molybdenum	ppm	ASTM D5185m 12	0	0	8
Manganese	ppm	ASTM D5185m	5	6	77
Magnesium	ppm	ASTM D5185m 12	7	13	203
Calcium	ppm	ASTM D5185m 150	117	68	949
Phosphorus	ppm	ASTM D5185m 1650	743	655	632
Zinc	ppm	ASTM D5185m 125	36	14	355
Sulfur	ppm	ASTM D5185m 22500	23035	18765	17236

CONTAMINANTS

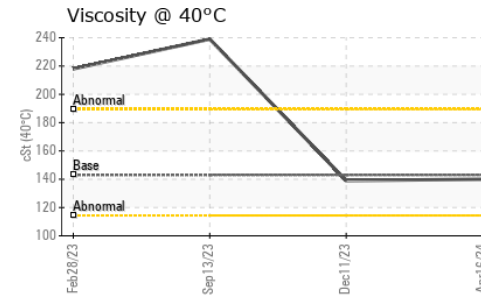
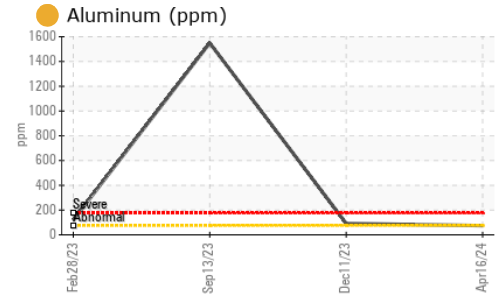
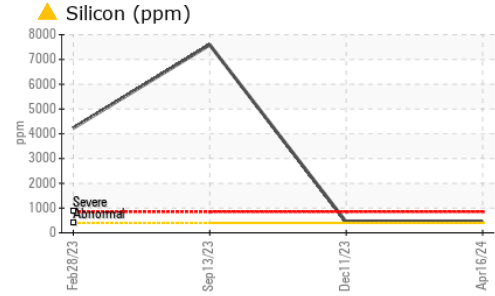
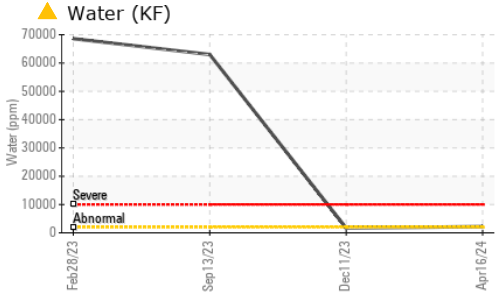
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	▲ 425	▲ 439	▲ 7592
Sodium	ppm	ASTM D5185m >170	6	5	122
Potassium	ppm	ASTM D5185m >20	20	22	408
Water	%	ASTM D6304 >0.2	▲ 0.221	0.169	▲ 6.30
ppm Water	ppm	ASTM D6304 >2000	▲ 2210	1690	▲ 63000

VISUAL

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



OIL ANALYSIS REPORT

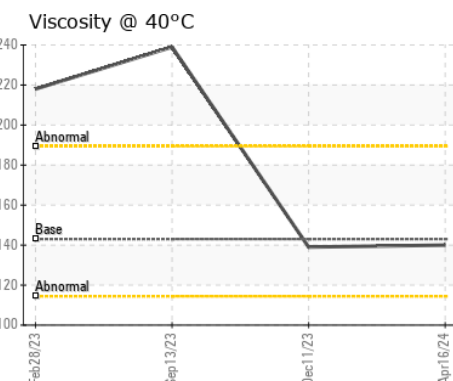
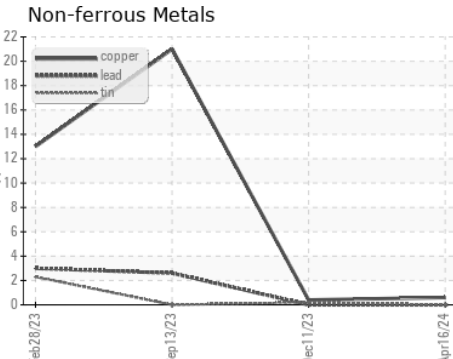
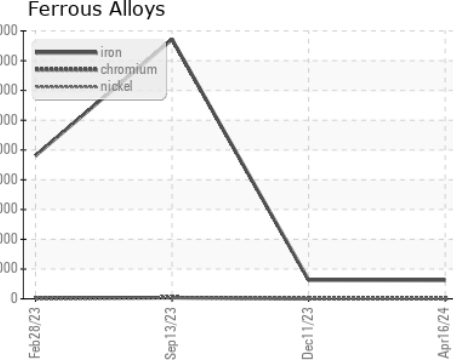


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	143	140	139	239

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0936930 **Received** : 09 May 2024
Lab Number : **06174338** **Tested** : 13 May 2024
Unique Number : 11020391 **Diagnosed** : 13 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests : KF)

MANHATTAN ROAD AND BRIDGE
 5601 S 122ND E AVE
 TULSA, OK
 US 74146
 Contact: BEN CALDWELL
 kevin.marson@wearcheck.com
 T: (918)728-5749
 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)