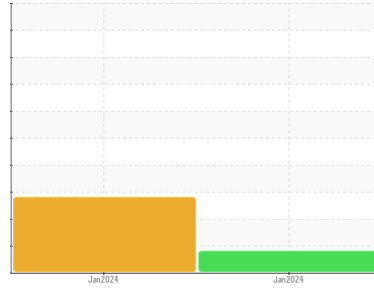




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
{UNASSIGNED}
 Machine Id
WRRCHB-1 (S/N 17-103)
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 46 (375 GAL)

DIAGNOSIS

Recommendation

The oil filtered at the time of sampling has been noted. Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data update for VI. (Customer Sample Comment: After 10 hours static filtration and 18 hours of dynamic filtration.)

Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. 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			WC0782788	WC0782787	---
Sample Date	Client Info			29 Jan 2024	28 Jan 2024	---
Machine Age	hrs	Client Info		40598	40545	---
Oil Age	hrs	Client Info		40598	40545	---
Oil Changed	Client Info			Filtered	Not Changd	---
Sample Status				ABNORMAL	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.05	NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	3	4	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>20	0	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>20	0	0	---
Lead	ppm	ASTM D5185m	>20	0	0	---
Copper	ppm	ASTM D5185m	>20	▲ 53	▲ 54	---
Tin	ppm	ASTM D5185m	>20	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
Cadmium	ppm	ASTM D5185m		0	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	---
Barium	ppm	ASTM D5185m	5	0	0	---
Molybdenum	ppm	ASTM D5185m	5	0	0	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m	25	0	2	---
Calcium	ppm	ASTM D5185m	200	6	10	---
Phosphorus	ppm	ASTM D5185m	300	231	246	---
Zinc	ppm	ASTM D5185m	370	165	201	---
Sulfur	ppm	ASTM D5185m	2500	904	939	---

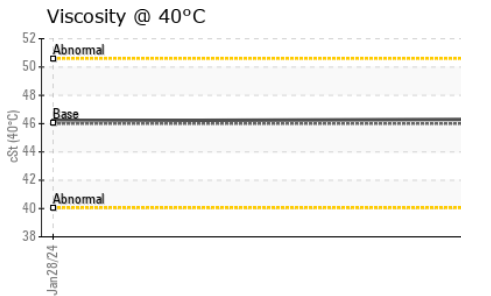
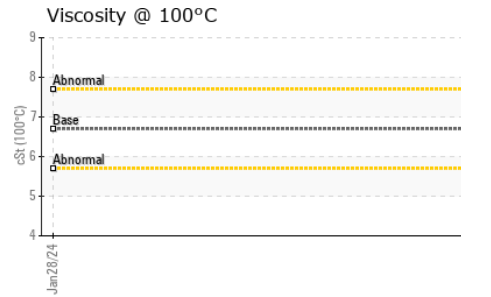
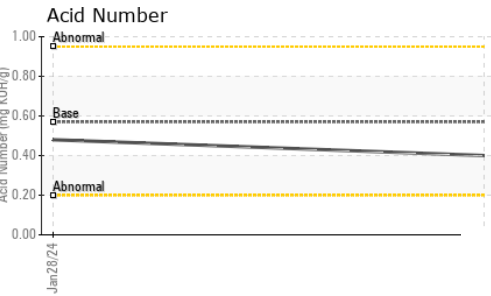
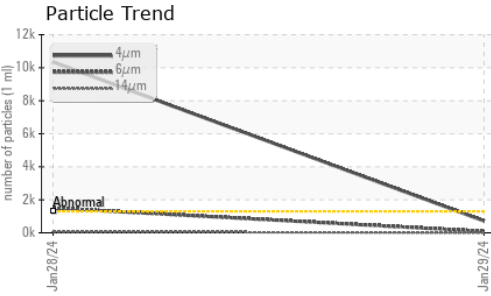
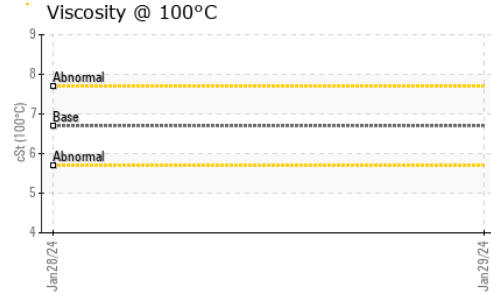
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	---
Sodium	ppm	ASTM D5185m		<1	<1	---
Potassium	ppm	ASTM D5185m	>20	0	0	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	716	▲ 10346	---
Particles >6µm		ASTM D7647	>320	87	▲ 1497	---
Particles >14µm		ASTM D7647	>40	5	▲ 60	---
Particles >21µm		ASTM D7647	>10	2	▲ 12	---
Particles >38µm		ASTM D7647	>3	0	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>17/15/12	17/14/10	▲ 21/18/13	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.40	0.48	---



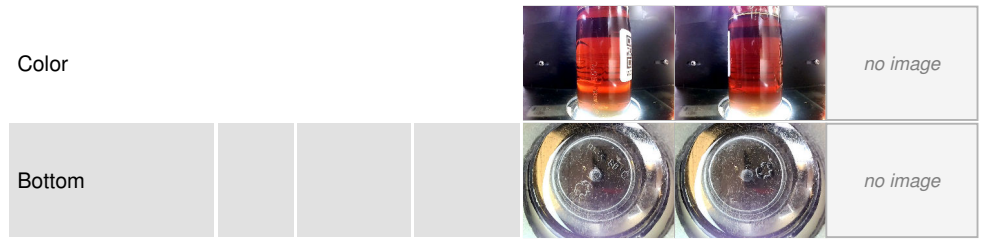
OIL ANALYSIS REPORT



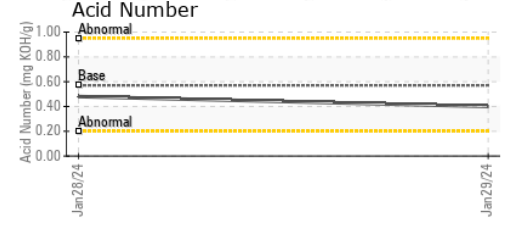
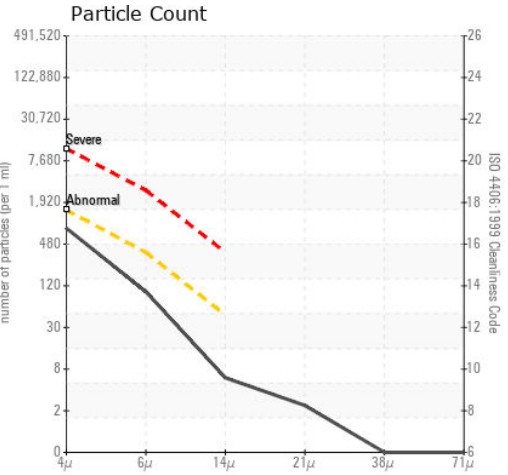
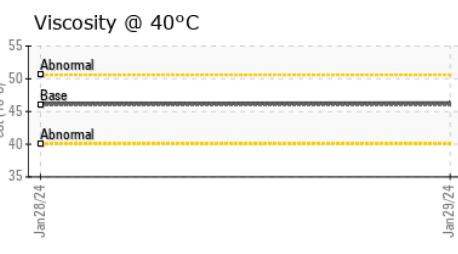
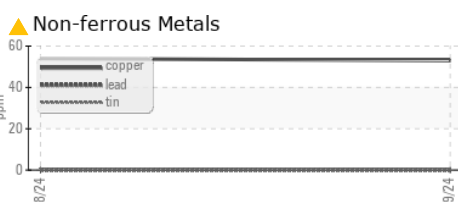
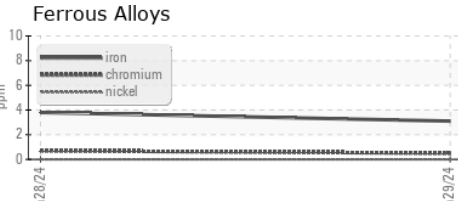
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	46.2	---
Visc @ 100°C	cSt	ASTM D445	6.7	7.41	---
Viscosity Index (VI)	Scale	ASTM D2270	97	123	---

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0782788 **Received** : 31 Jan 2024
Lab Number : 06075680 **Diagnosed** : 01 Feb 2024
Unique Number : 10857771 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KV100, VI)

WEST SIDE SOLUTIONS
 4506 HWY 90
 CONWAY, SC
 US 29526-9631
 Contact: KEN ANDRE
 westsidesolutionsus@gmail.com
 T: (216)577-5014
 F:

Certificate L2367
 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)