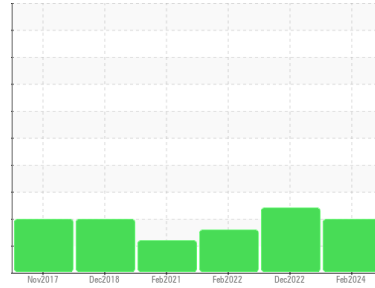




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area
WQ
Machine Id
TELEDYNE 00237

Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 68 (120 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

Viscosity of sample indicates oil is within ISO 32 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0721331	WC0570594	WC0524404
Sample Date	Client Info	25 Feb 2024	01 Dec 2022	07 Feb 2022
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >20	4	7	4
Chromium	ppm ASTM D5185m >10	0	<1	<1
Nickel	ppm ASTM D5185m >10	0	0	0
Titanium	ppm ASTM D5185m	<1	0	0
Silver	ppm ASTM D5185m	0	0	0
Aluminum	ppm ASTM D5185m >10	0	0	<1
Lead	ppm ASTM D5185m >10	0	0	0
Copper	ppm ASTM D5185m >75	5	2	<1
Tin	ppm ASTM D5185m >10	0	0	0
Antimony	ppm ASTM D5185m	---	---	0
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 5	6	0	1
Barium	ppm ASTM D5185m 5	0	0	0
Molybdenum	ppm ASTM D5185m 5	2	<1	<1
Manganese	ppm ASTM D5185m	0	0	0
Magnesium	ppm ASTM D5185m 25	12	4	<1
Calcium	ppm ASTM D5185m 200	100	76	46
Phosphorus	ppm ASTM D5185m 300	307	331	337
Zinc	ppm ASTM D5185m 370	364	423	416
Sulfur	ppm ASTM D5185m 2500	835	764	798

CONTAMINANTS

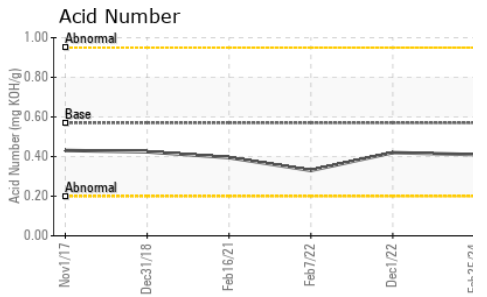
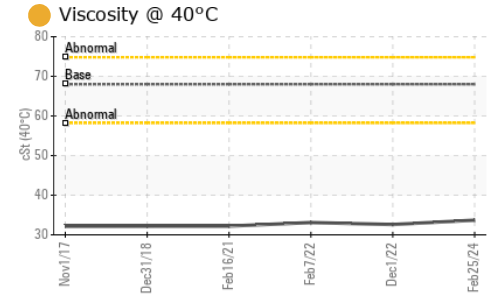
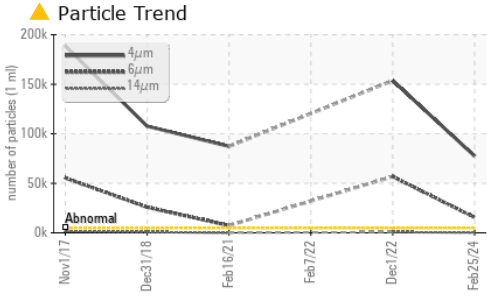
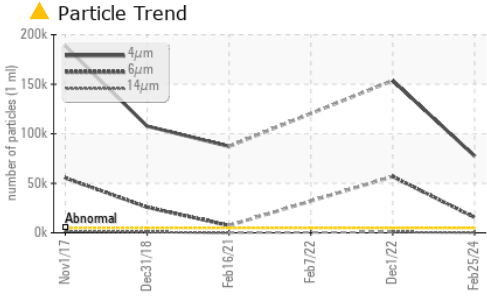
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	1	3	1
Sodium	ppm ASTM D5185m	3	3	2
Potassium	ppm ASTM D5185m >20	0	0	0

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 77463	▲ 153635	---
Particles >6µm	ASTM D7647 >1300	▲ 15512	▲ 56762	---
Particles >14µm	ASTM D7647 >160	▲ 204	▲ 735	---
Particles >21µm	ASTM D7647 >40	36	▲ 73	---
Particles >38µm	ASTM D7647 >10	1	3	---
Particles >71µm	ASTM D7647 >3	0	0	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 23/21/15	▲ 24/23/17	---



OIL ANALYSIS REPORT

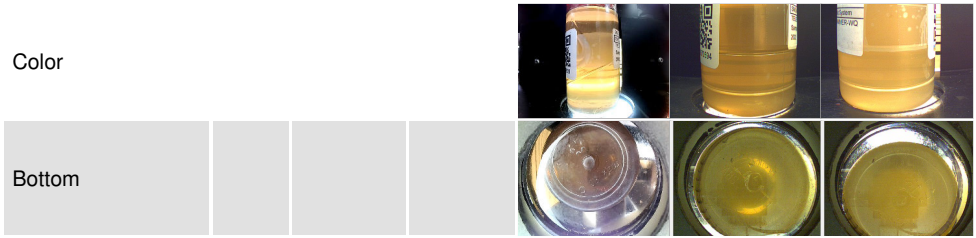


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.41	0.42	0.33

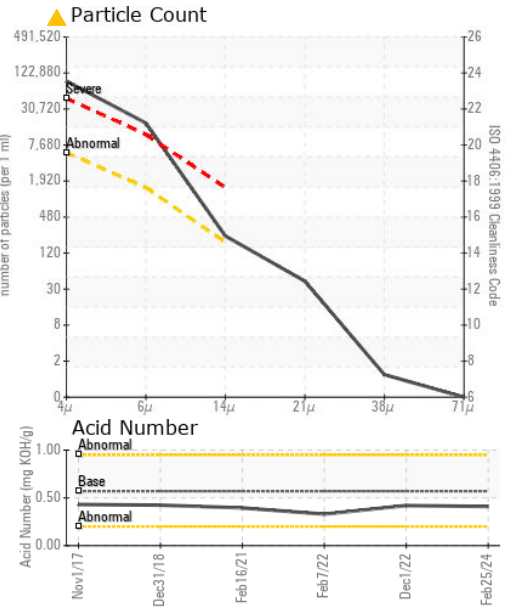
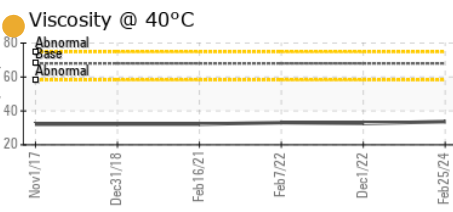
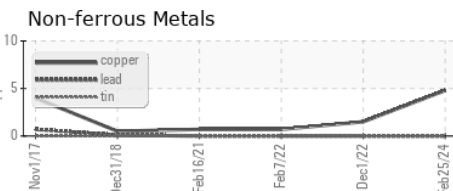
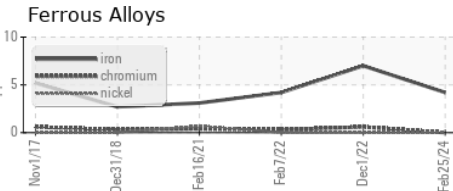
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	● HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	● 33.7	● 32.6	● 33.1

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0721331 **Received** : 26 Feb 2024
Lab Number : **06100108** **Tested** : 27 Feb 2024
Unique Number : 10898338 **Diagnosed** : 27 Feb 2024 - Don Baldrige
Test Package : MOB 2

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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)