



# OIL ANALYSIS REPORT

WEAR	<b>ABNORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**3351095 - ABC 354**

Component  
**Hydraulic System**

Fluid  
**AW HYDRAULIC OIL ISO 32 (55 GAL)**

## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample.

## WEAR

Moderate concentration of visible metal present. All component wear rates are normal.

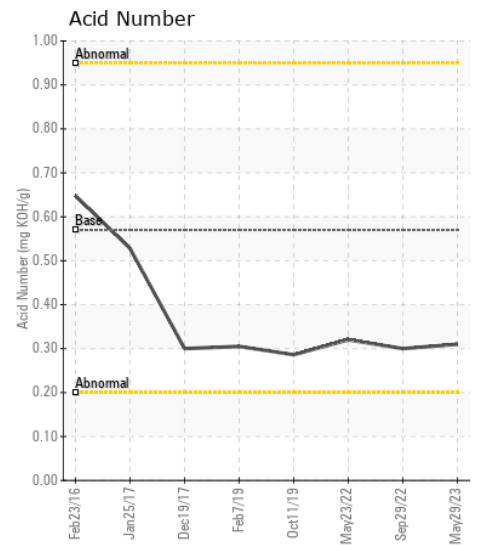
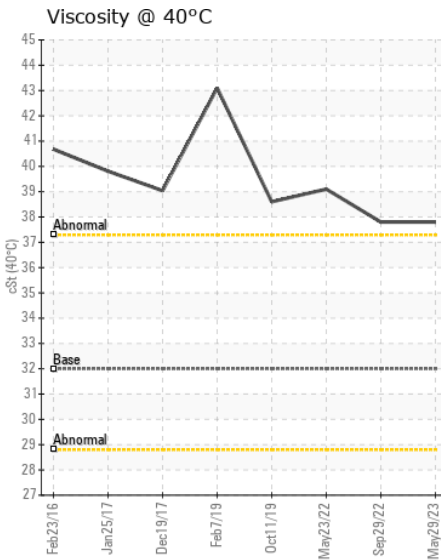
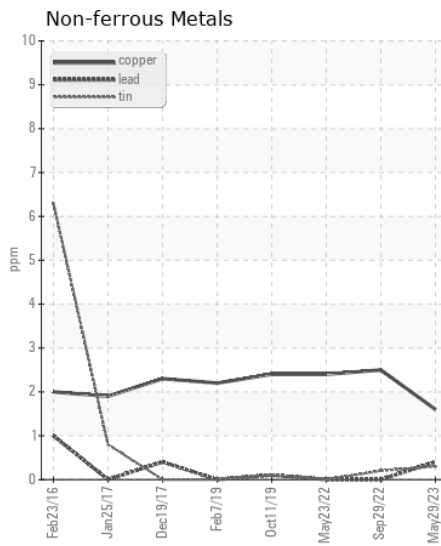
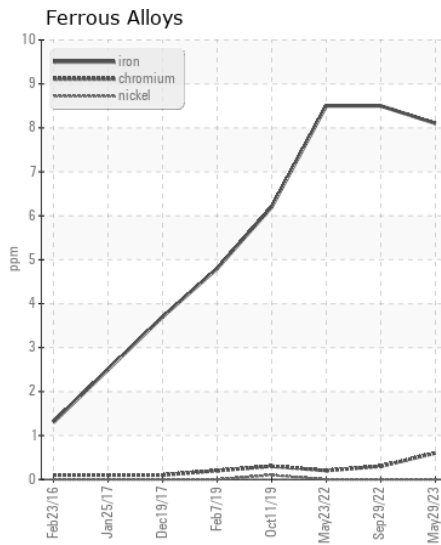
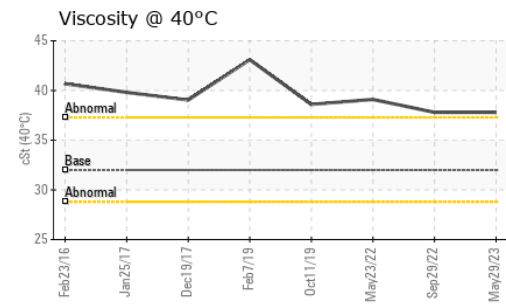
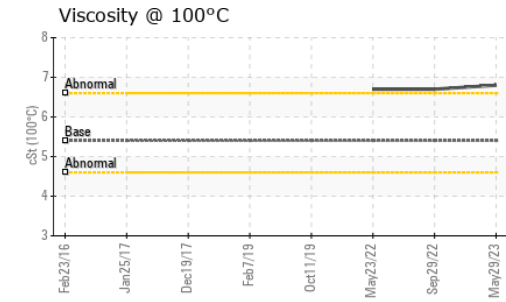
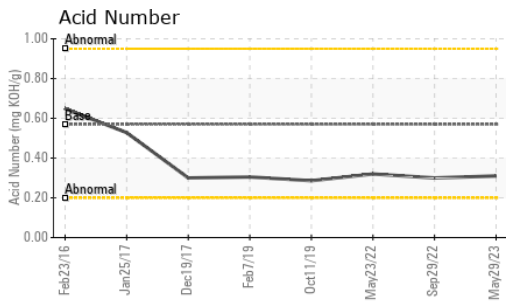
## CONTAMINATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0735136</b>	WC0682294	WC0689634
Sample Date		Client Info		<b>29 May 2023</b>	29 Sep 2022	23 May 2022
Machine Age	mls	Client Info		<b>156961</b>	150660	142237
Oil Age	mls	Client Info		<b>0</b>	0	0
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>ABNORMAL</b>	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>20	<b>8</b>	8	8
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>2</b>	2	2
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>▲ MODER</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	<b>2</b>	1	<1
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>---</b>	1405	<b>▲ 64820</b>
Particles >6µm		ASTM D7647	>1300	<b>---</b>	157	<b>▲ 16281</b>
Particles >14µm		ASTM D7647	>160	<b>---</b>	16	<b>▲ 496</b>
Particles >21µm		ASTM D7647	>40	<b>---</b>	4	<b>▲ 45</b>
Particles >38µm		ASTM D7647	>10	<b>---</b>	1	<b>2</b>
Particles >71µm		ASTM D7647	>3	<b>---</b>	0	<b>0</b>
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>---</b>	18/14/11	<b>▲ 23/21/16</b>
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185m		<b>2</b>	0	2
Boron	ppm	ASTM D5185m	5	<b>0</b>	<1	3
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	5	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	25	<b>11</b>	2	<1
Calcium	ppm	ASTM D5185m	200	<b>44</b>	50	52
Phosphorus	ppm	ASTM D5185m	300	<b>303</b>	341	354
Zinc	ppm	ASTM D5185m	370	<b>368</b>	405	411
Sulfur	ppm	ASTM D5185m	2500	<b>3167</b>	3594	3861
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	<b>0.31</b>	0.30	0.32
Visc @ 40°C	cSt	ASTM D445	32	<b>37.8</b>	37.8	39.1
Visc @ 100°C	cSt	ASTM D445	5.4	<b>6.8</b>	6.7	6.7
Viscosity Index (VI)	Scale	ASTM D2270	102	<b>139</b>	134	127



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0735136 **Received** : 26 May 2023  
**Lab Number** : 05858526 **Diagnosed** : 31 May 2023  
**Unique Number** : 10492991 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: KV100, VI )

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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