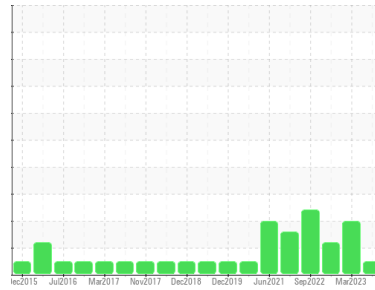




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**West Molding**  
Machine Id  
**137 (S/N 3302577)**

Component  
**Hydraulic System**  
Fluid  
**AW HYDRAULIC OIL ISO 46 (602 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

### 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	<b>RP0034697</b>	RP0026020	RP0026019
Sample Date	Client Info	<b>16 Sep 2023</b>	30 Mar 2023	14 Mar 2023
Machine Age	hrs	Client Info	<b>0</b>	0
Oil Age	hrs	Client Info	<b>0</b>	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	ABNORMAL	ATTENTION

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	<b>3</b>	5	5
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >20	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>0</b>	0	0
Lead	ppm	ASTM D5185m >20	<b>&lt;1</b>	1	1
Copper	ppm	ASTM D5185m >20	<b>4</b>	3	3
Tin	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 5	<b>0</b>	0	0
Barium	ppm	ASTM D5185m 5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 5	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 25	<b>4</b>	3	3
Calcium	ppm	ASTM D5185m 200	<b>49</b>	45	45
Phosphorus	ppm	ASTM D5185m 300	<b>310</b>	337	346
Zinc	ppm	ASTM D5185m 370	<b>359</b>	357	363

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	<b>&lt;1</b>	2	2
Sodium	ppm	ASTM D5185m	<b>4</b>	<1	<1
Potassium	ppm	ASTM D5185m >20	<b>2</b>	3	3
Water	%	ASTM D6304 >0.05	<b>0.014</b>	0.007	0.007
ppm Water	ppm	ASTM D6304 >500	<b>147.7</b>	78.9	70.2

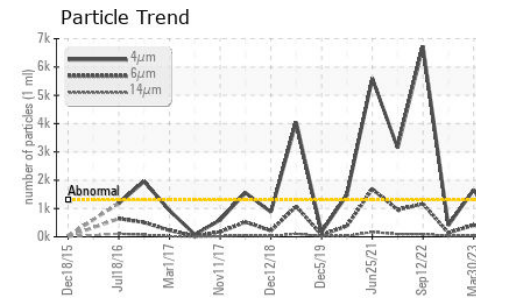
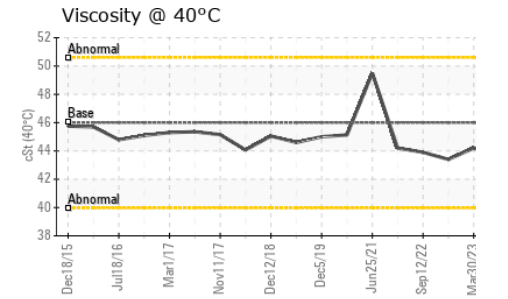
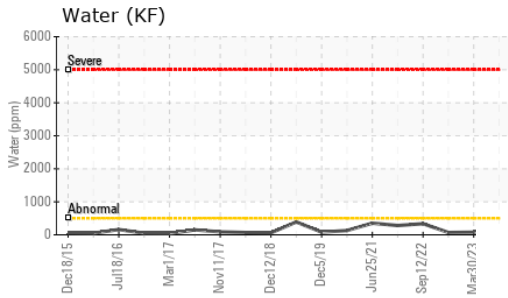
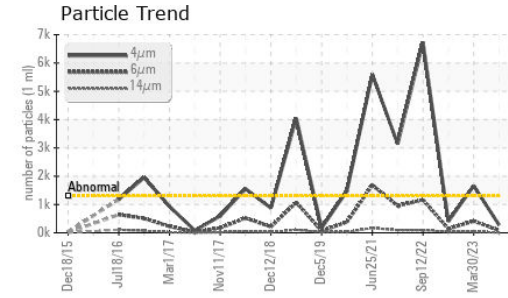
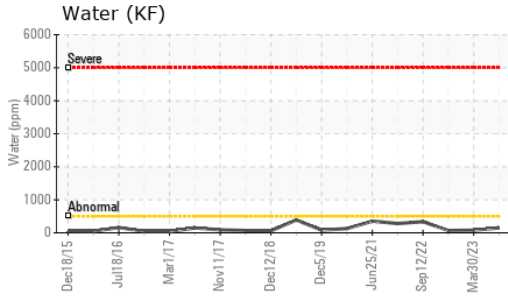
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >1300	<b>275</b>	▲ 1663	401
Particles >6µm	ASTM D7647 >160	<b>83</b>	▲ 418	142
Particles >14µm	ASTM D7647 >20	<b>7</b>	▲ 41	▲ 35
Particles >21µm	ASTM D7647 >4	<b>1</b>	▲ 13	▲ 9
Particles >38µm	ASTM D7647 >3	<b>0</b>	1	1
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >17/14/11	<b>15/14/10</b>	▲ 18/16/13	▲ 16/14/12

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	<b>0.63</b>	0.68	0.67

# OIL ANALYSIS REPORT



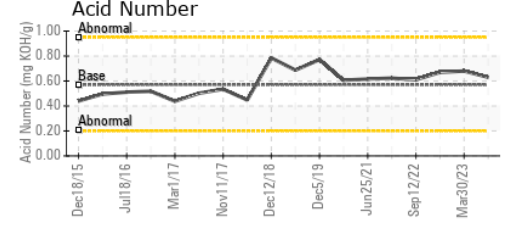
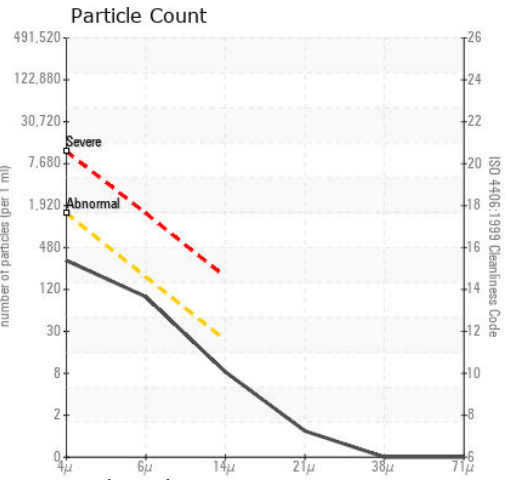
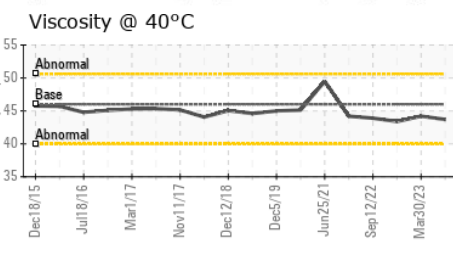
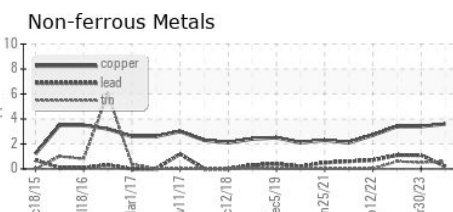
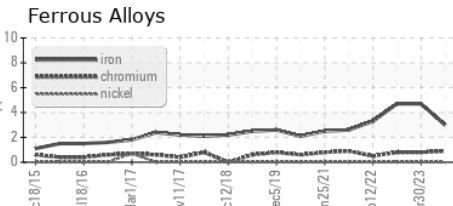
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	43.7	44.2

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0034697 **Received** : 27 Sep 2023  
**Lab Number** : 05962219 **Diagnosed** : 28 Sep 2023  
**Unique Number** : 10668770 **Diagnostician** : Wes Davis  
**Test Package** : IND 2

**YANFENG AUTOMOTIVE INTERIORS**  
 1600 S. WASHINGTON AVE.  
 HOLLAND, MI  
 US 49423  
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 jeffrey.harris@yanfeng.com  
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 F: (616)394-1725

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)