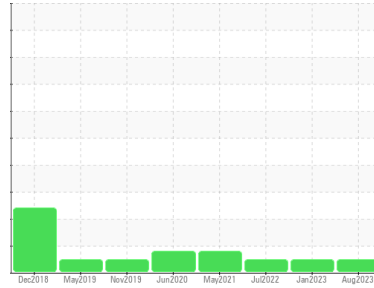




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**West Molding**  
 Machine Id  
**149 (S/N 25663)**  
 Component  
**Hydraulic System**  
 Fluid  
**SHELL TELLUS 46 (436 GAL)**

**DIAGNOSIS**

**Recommendation**

Resample at the next service interval to monitor.

**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>RP0034641</b>	RP0030214	RP0021584
Sample Date	Client Info			<b>15 Aug 2023</b>	27 Jan 2023	07 Jul 2022
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>4</b>	5	2
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	<1
Aluminum	ppm	ASTM D5185m	>20	<b>0</b>	0	1
Lead	ppm	ASTM D5185m	>20	<b>6</b>	8	1
Copper	ppm	ASTM D5185m	>20	<b>9</b>	10	6
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185m		<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

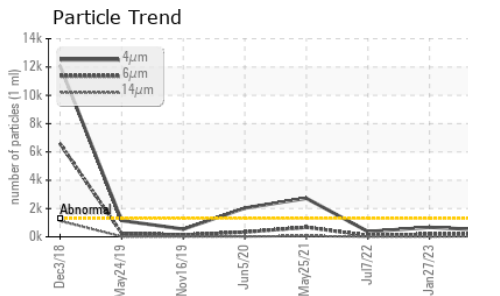
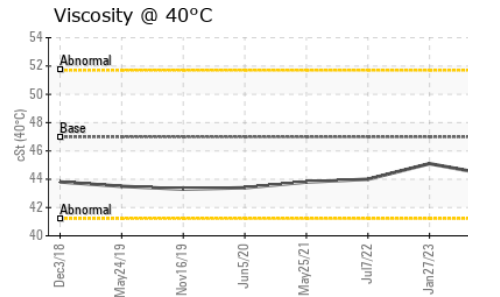
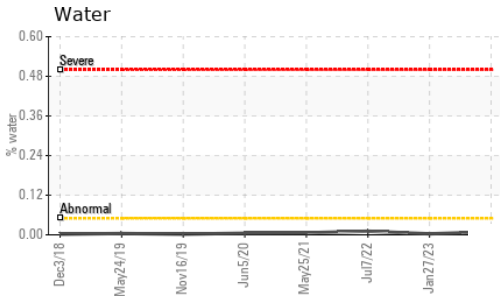
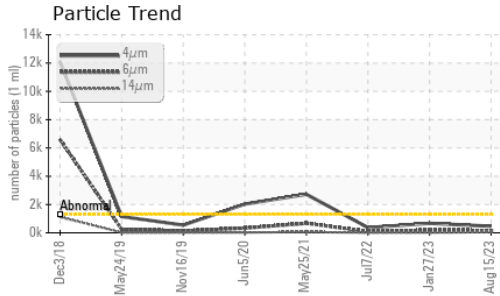
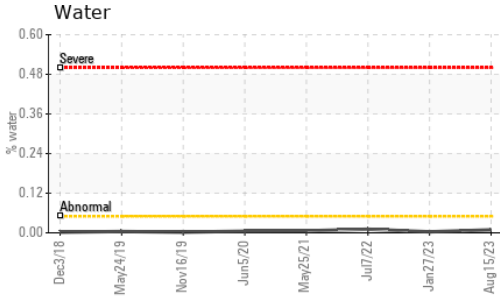
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0.0	<b>0</b>	0	1
Barium	ppm	ASTM D5185m	0	<b>0</b>	1	2
Molybdenum	ppm	ASTM D5185m	0	<b>1</b>	1	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	11	<b>6</b>	7	8
Calcium	ppm	ASTM D5185m	35	<b>49</b>	50	55
Phosphorus	ppm	ASTM D5185m	266	<b>322</b>	334	351
Zinc	ppm	ASTM D5185m	276	<b>383</b>	385	430

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Sodium	ppm	ASTM D5185m		<b>0</b>	0	0
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	<1
Water	%	ASTM D6304	>0.05	<b>0.009</b>	0.003	0.011
ppm Water	ppm	ASTM D6304	>500	<b>92.8</b>	38.9	114.4

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	<b>466</b>	672	368
Particles >6µm		ASTM D7647	>320	<b>156</b>	186	92
Particles >14µm		ASTM D7647	>80	<b>50</b>	18	13
Particles >21µm		ASTM D7647	>20	<b>17</b>	4	3
Particles >38µm		ASTM D7647	>4	<b>0</b>	1	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>17/15/13	<b>16/14/13</b>	17/15/11	16/14/11

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.36	<b>0.44</b>	0.41	0.37

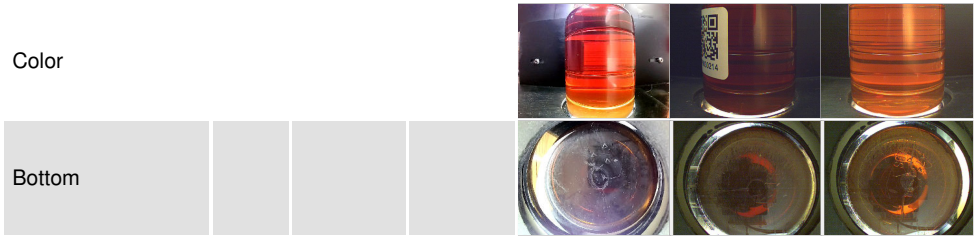
# OIL ANALYSIS REPORT



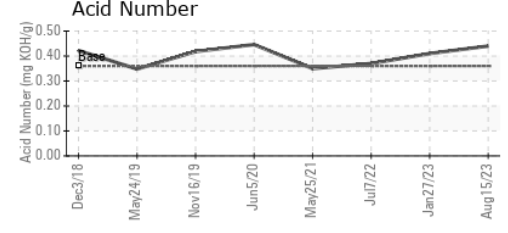
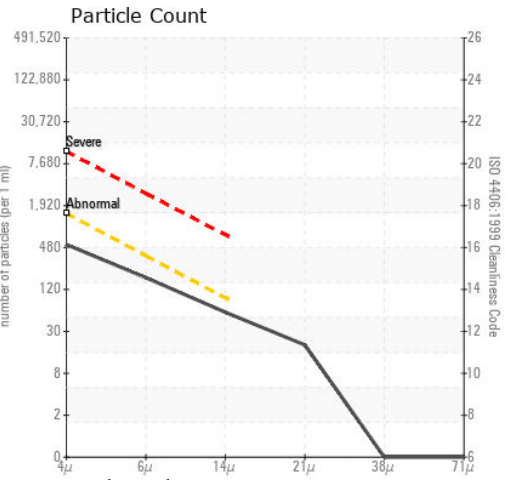
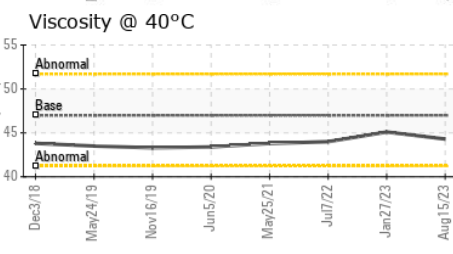
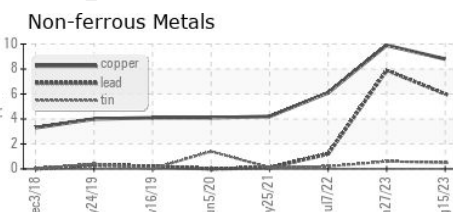
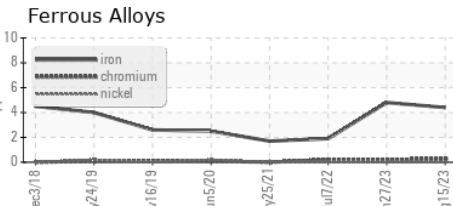
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	46.99	<b>44.3</b>	45.1	44.0

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0034641 **Received** : 25 Aug 2023  
**Lab Number** : 05934880 **Diagnosed** : 28 Aug 2023  
**Unique Number** : 10620151 **Diagnostician** : Wes Davis  
**Test Package** : IND 2

**YANFENG AUTOMOTIVE INTERIORS**  
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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)