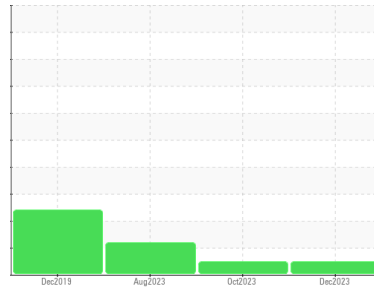




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**Extrusion**  
 Machine Id  
**Press 5 Press Hydraulic Unit Oil (S/N 81546)**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 46 (3487 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>RP0038264</b>	RP0038258	RP0024728
Sample Date	Client Info	<b>01 Dec 2023</b>	13 Oct 2023	25 Aug 2023
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	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>20	<b>&lt;1</b>	3	4
Chromium ppm ASTM D5185m	>20	<b>0</b>	0	0
Nickel ppm ASTM D5185m	>20	<b>0</b>	0	0
Titanium ppm ASTM D5185m		<b>0</b>	0	0
Silver ppm ASTM D5185m		<b>0</b>	0	0
Aluminum ppm ASTM D5185m	>20	<b>0</b>	0	<1
Lead ppm ASTM D5185m	>20	<b>0</b>	0	<1
Copper ppm ASTM D5185m	>20	<b>5</b>	6	7
Tin ppm ASTM D5185m	>20	<b>0</b>	0	0
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	5	<b>13</b>	18	29
Barium ppm ASTM D5185m	5	<b>0</b>	0	2
Molybdenum ppm ASTM D5185m	5	<b>15</b>	22	35
Manganese ppm ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium ppm ASTM D5185m	25	<b>30</b>	43	56
Calcium ppm ASTM D5185m	200	<b>122</b>	172	234
Phosphorus ppm ASTM D5185m	300	<b>312</b>	352	357
Zinc ppm ASTM D5185m	370	<b>365</b>	422	446

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Sodium ppm ASTM D5185m		<b>1</b>	<1	0
Potassium ppm ASTM D5185m	>20	<b>&lt;1</b>	2	6
Water % ASTM D6304	>0.05	<b>0.004</b>	0.005	0.007
ppm Water ppm ASTM D6304	>500	<b>40</b>	51.0	79.4

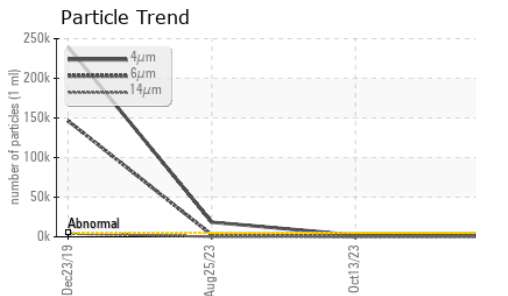
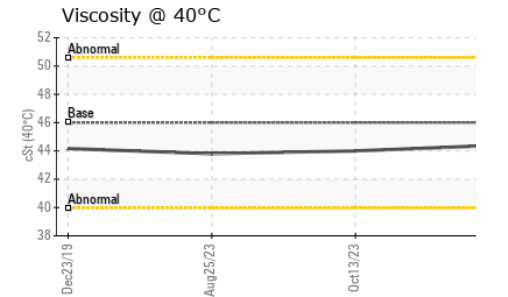
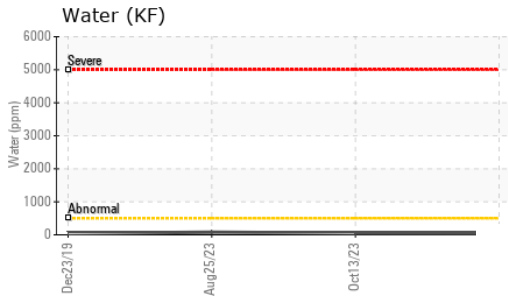
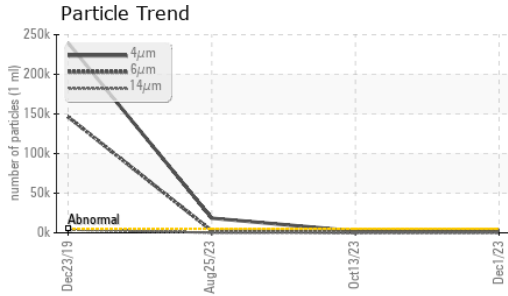
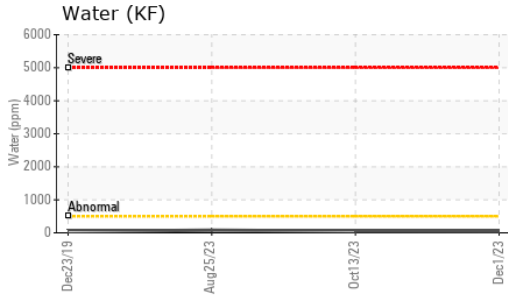
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	<b>3316</b>	2333	▲ 18447
Particles >6µm ASTM D7647	>1300	<b>929</b>	660	▲ 2514
Particles >14µm ASTM D7647	>160	<b>81</b>	105	109
Particles >21µm ASTM D7647	>40	<b>21</b>	42	27
Particles >38µm ASTM D7647	>10	<b>1</b>	4	1
Particles >71µm ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness ISO 4406 (c)	>19/17/14	<b>19/17/14</b>	18/17/14	▲ 21/19/14

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	0.57	<b>0.27</b>	0.43	0.47

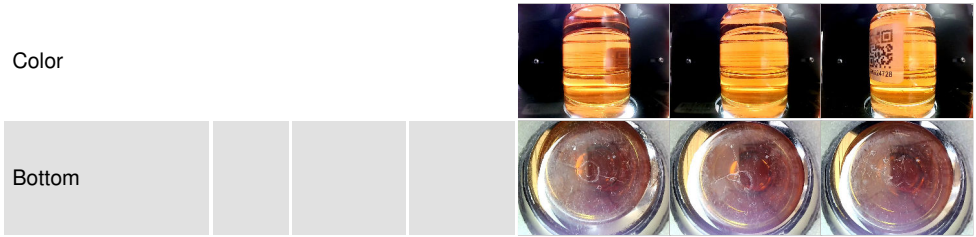
# OIL ANALYSIS REPORT



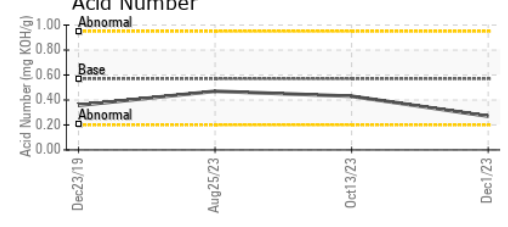
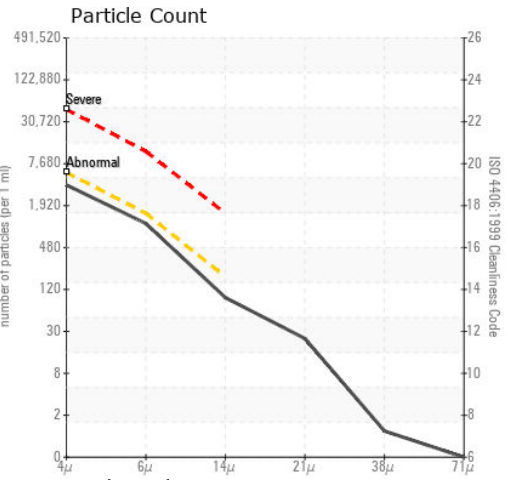
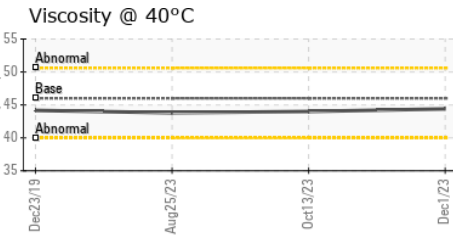
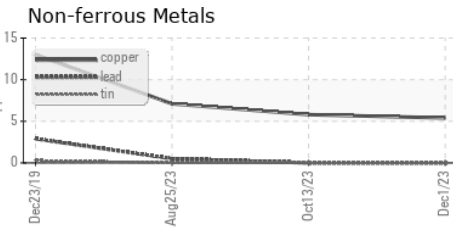
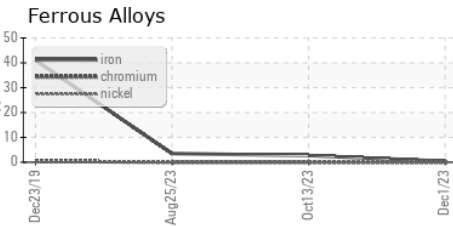
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	44.4	44.0	43.8

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0038264 **Received** : 06 Dec 2023  
**Lab Number** : 06026381 **Diagnosed** : 07 Dec 2023  
**Unique Number** : 10776172 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**WESTERN EXTRUSIONS CORPORATION**  
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 swestfall@WesternExtrusions.Com  
 T:  
 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)