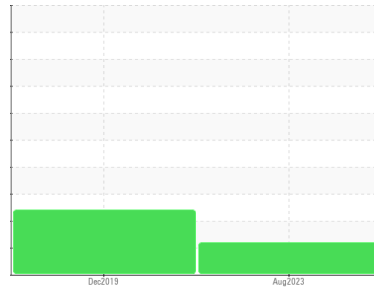


PROBLEM SUMMARY

Sample Rating Trend



ISO



Area

Extrusion

Machine Id

Press 5 Press Hydraulic Unit Oil (S/N 81546)

Component

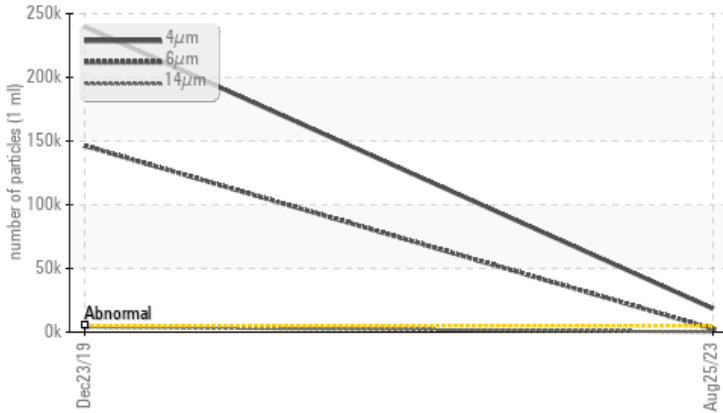
Hydraulic System

Fluid

AW HYDRAULIC OIL ISO 46 (3487 GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ABNORMAL	---
Particles >4µm	ASTM D7647	>5000	▲ 18447	▲ 239679	---
Particles >6µm	ASTM D7647	>1300	▲ 2514	▲ 146339	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/19/14	▲ 25/24/19	---

Customer Id: WESCARTEX

Sample No.: RP0024728

Lab Number: 05938261

Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldrige +1

don.b505@comcast.net

To change component or sample information:

Customer Service +1 1-800-237-1369

customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS

23 Dec 2019 Diag: Doug Bogart

WEAR



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please note that this is a corrected copy for diagnostic comment updates. The iron level is abnormal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service. FTIR indicates oil is a mineral oil, maybe with some PAO.

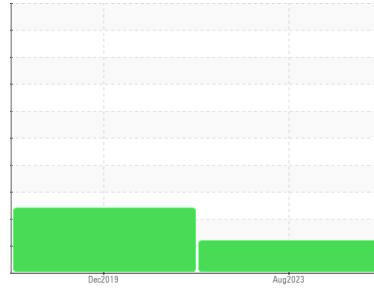
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



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

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

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		RP0024728	RP0000919	---
Sample Date	Client Info		25 Aug 2023	23 Dec 2019	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	4	▲ 41	---
Chromium	ppm	ASTM D5185m >20	0	<1	---
Nickel	ppm	ASTM D5185m >20	0	0	---
Titanium	ppm	ASTM D5185m	0	0	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >20	<1	0	---
Lead	ppm	ASTM D5185m >20	<1	3	---
Copper	ppm	ASTM D5185m >20	7	13	---
Tin	ppm	ASTM D5185m >20	0	<1	---
Antimony	ppm	ASTM D5185m	---	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

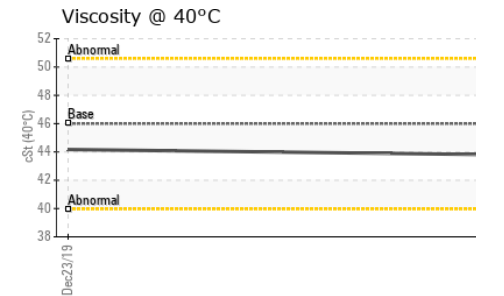
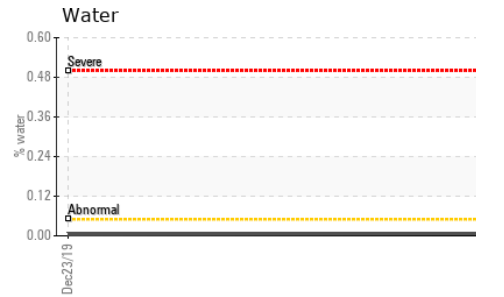
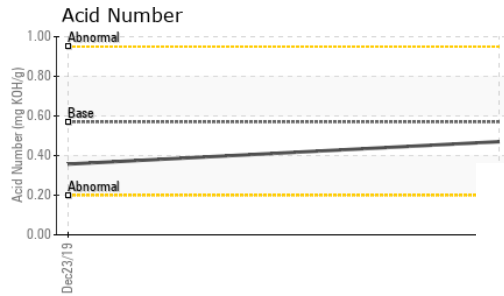
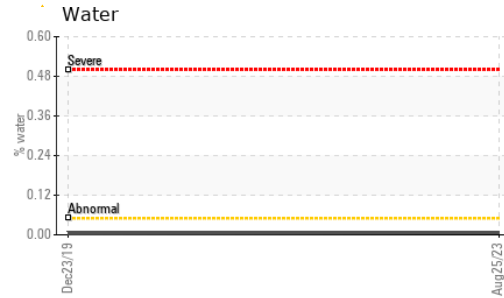
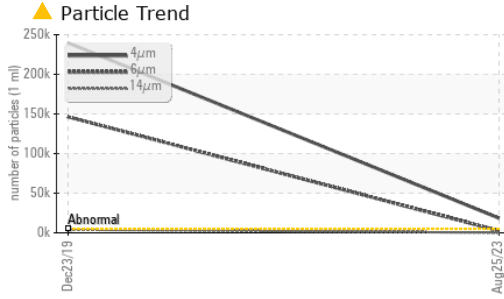
ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	29	<1	---
Barium	ppm	ASTM D5185m 5	2	0	---
Molybdenum	ppm	ASTM D5185m 5	35	0	---
Manganese	ppm	ASTM D5185m	0	<1	---
Magnesium	ppm	ASTM D5185m 25	56	2	---
Calcium	ppm	ASTM D5185m 200	234	26	---
Phosphorus	ppm	ASTM D5185m 300	357	259	---
Zinc	ppm	ASTM D5185m 370	446	298	---

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<1	<1	---
Sodium	ppm	ASTM D5185m	0	<1	---
Potassium	ppm	ASTM D5185m >20	6	2	---
Water	%	ASTM D6304 >0.05	0.007	0.004	---
ppm Water	ppm	ASTM D6304 >500	79.4	43.5	---

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 18447	▲ 239679	---
Particles >6µm	ASTM D7647	>1300	▲ 2514	▲ 146339	---
Particles >14µm	ASTM D7647	>160	109	▲ 3925	---
Particles >21µm	ASTM D7647	>40	27	▲ 235	---
Particles >38µm	ASTM D7647	>10	1	1	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/19/14	▲ 25/24/19	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	0.47	0.357	---

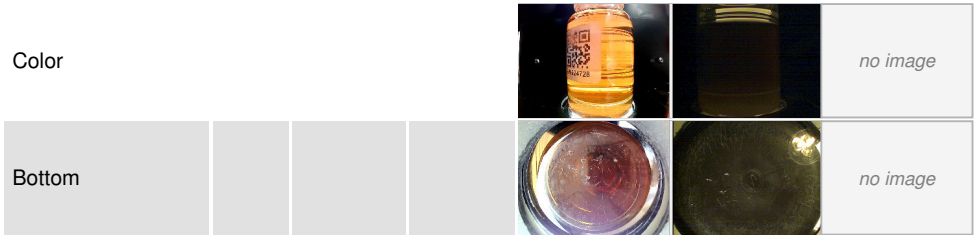
OIL ANALYSIS REPORT



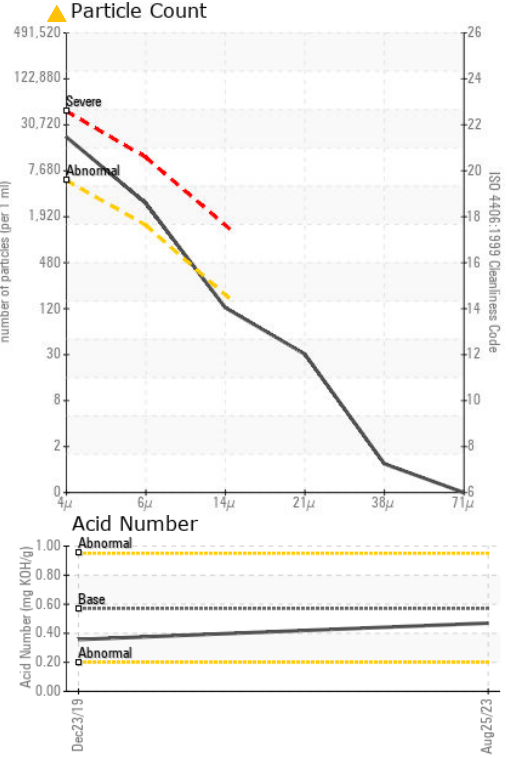
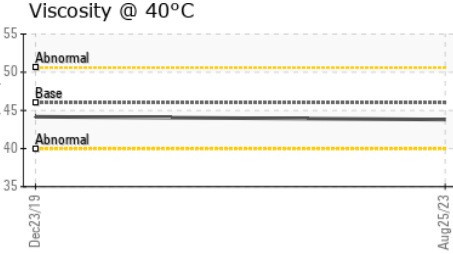
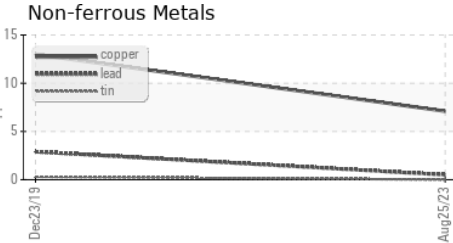
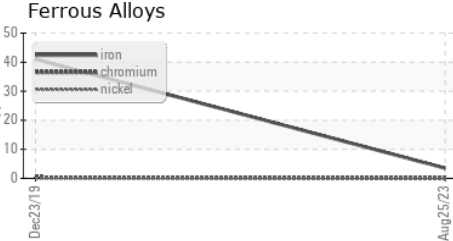
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	43.8	44.17

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0024728 **Received** : 30 Aug 2023
Lab Number : 05938261 **Diagnosed** : 31 Aug 2023
Unique Number : 10628873 **Diagnostician** : Don Baldrige
Test Package : IND 2

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 CARROLLTON, TX
 US 75006
 Contact: SCOTT WESTFALL
 swestfall@WesternExtrusions.Com
 T:
 F:

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)