



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area  
**STAMPING**  
Machine Id  
**P159 Straightener**  
Component  
**2 Gearbox**  
Fluid  
**ZEPF ZX-15 (--- LTR)**

## 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

Elemental level of silicon (Si) above normal.

## FLUID CONDITION

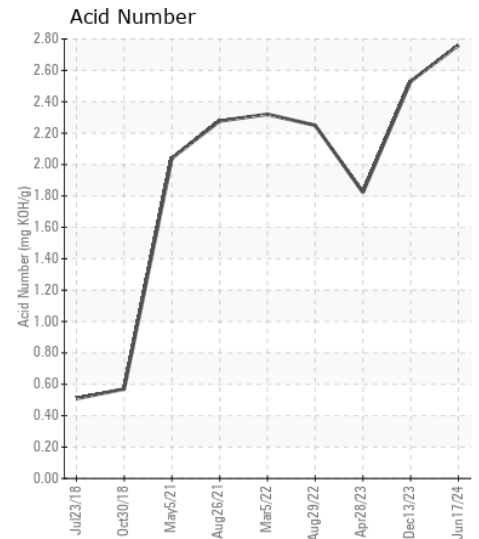
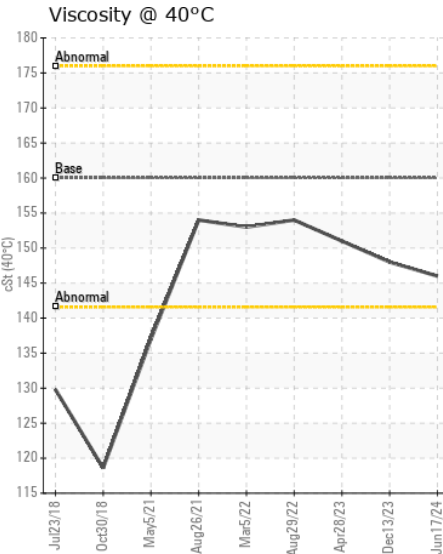
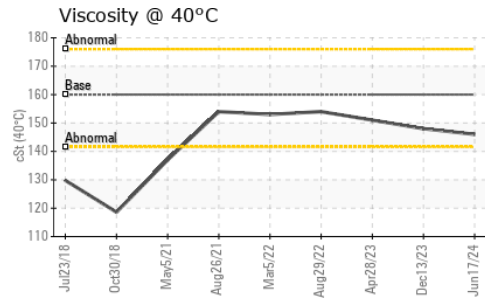
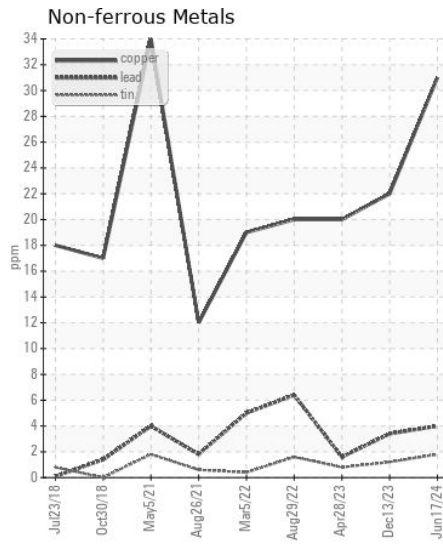
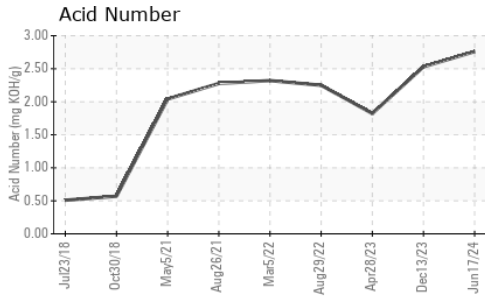
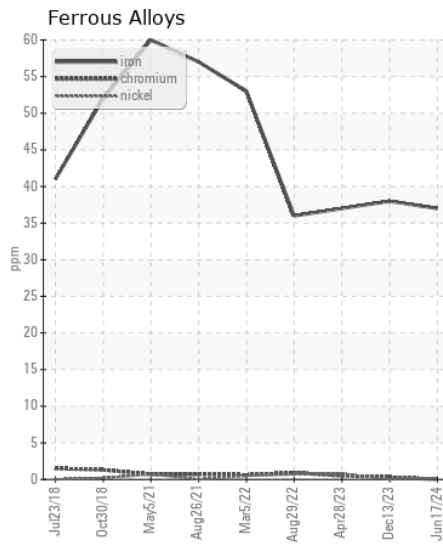
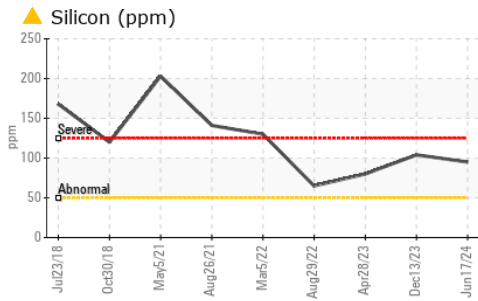
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0884984</b>	WC0837852	WC0745814
Sample Date		Client Info		<b>17 Jun 2024</b>	13 Dec 2023	28 Apr 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

Iron	ppm	ASTM D5185m	>200	<b>37</b>	38	37
Chromium	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	<1	<1
Lead	ppm	ASTM D5185m	>100	<b>4</b>	3	2
Copper	ppm	ASTM D5185m	>200	<b>31</b>	22	20
Tin	ppm	ASTM D5185m	>25	<b>2</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

Silicon	ppm	ASTM D5185m	>50	<b>▲ 95</b>	▲ 104	▲ 80
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	<1	2
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
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	>0.2	<b>NEG</b>	NEG	NEG

Sodium	ppm	ASTM D5185m		<b>3</b>	<1	3
Boron	ppm	ASTM D5185m		<b>4</b>	3	4
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>121</b>	120	123
Manganese	ppm	ASTM D5185m		<b>1</b>	2	2
Magnesium	ppm	ASTM D5185m		<b>2</b>	<1	2
Calcium	ppm	ASTM D5185m		<b>1</b>	2	4
Phosphorus	ppm	ASTM D5185m		<b>1515</b>	1415	1427
Zinc	ppm	ASTM D5185m		<b>99</b>	104	104
Sulfur	ppm	ASTM D5185m		<b>36718</b>	28671	36114
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>2.76</b>	2.53	1.822
Visc @ 40°C	cSt	ASTM D445	160	<b>146</b>	148	151



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0884984  
**Lab Number** : 06229230  
**Unique Number** : 11112723  
**Test Package** : IND 2

**Received** : 05 Jul 2024  
**Tested** : 09 Jul 2024  
**Diagnosed** : 09 Jul 2024 - Don Baldridge

**BLUM INC.**  
 7733 OLD PLANK RD.  
 STANLEY, NC  
 US 28164

Contact: Robby Hammer  
 robbly.hammer@blum.com

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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