

# LABORATORY ANALYSIS



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Department **TRANSFER ATIZAPAN**  
Equipment No. **760 MAZAK 15 (760) (00012)**  
System **Hydraulic System**  
Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (--- GAL)**

## DIAGNOSIS

The oil is near the end of its useful service life, recommend schedule an oil change. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. Zinc (Zn) ppm levels are abnormally low.

## SAMPLE INFORMATION

Lab Number	New	<b>2312-00071</b>	2310-00451	---
Date of Sample	(Typical)	<b>13 Nov 2023</b>	20 Sep 2023	---
Oil Added		<b>UNK</b>	UNK	---
Last Drain Date		--	--	---
Last Filter Service		--	--	---
Sample Point		---	---	---
Sample Status		<b>ABNORMAL</b>	ABNORMAL	---

## VISCOSITY @ 100F OR 40C (ASTM D-445)

SSU Vis. @ 100F	SSU	<b>162.2</b>	165.5	---
cSt Vis. @ 40C	cSt	32.0	<b>31.33</b>	32.00

## COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	<b>RED</b>	RED	---
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## PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	<b>20/17/13</b>	20/17/12	---
4 Micron & Larger	particles/ml	>5000	<b>▲ 7,020</b>	▲ 6,713	---
6 Micron & Larger	particles/ml	>2500	<b>■ 923</b>	■ 726	---
14 Micron & Larger	particles/ml	>160	<b>■ 55</b>	■ 33	---
21 Micron & Larger	particles/ml	>40	<b>■ 16</b>	■ 10	---
38 Micron & Larger	particles/ml	>10	<b>■ 1</b>	■ 1	---
70 Micron & Larger	particles/ml	>3	<b>■ 0</b>	■ 0	---

## ICP - OILS (REPORTED IN PARTS PER MILLION)

Aluminum (Al)	ppm	<b>&lt;5</b>	<5	---
Antimony (Sb)	ppm	<b>&lt;5</b>	<5	---
Cadmium (Cd)	ppm	<b>&lt;5</b>	<5	---
Chromium (Cr)	ppm	<b>&lt;5</b>	<5	---
Cobalt (Co)	ppm	<b>&lt;5</b>	<5	---
Copper (Cu)	ppm	<b>■ &lt;5</b>	■ <5	---
Iron (Fe)	ppm	<b>■ &lt;5</b>	■ <5	---
Lead (Pb)	ppm	<b>&lt;5</b>	<5	---
Manganese (Mn)	ppm	<b>&lt;5</b>	<5	---
Molybdenum(Mo)	ppm	<b>&lt;5</b>	<5	---
Nickel (Ni)	ppm	<b>&lt;5</b>	<5	---
Silver (Ag)	ppm	<b>&lt;5</b>	<5	---
Tin (Sn)	ppm	<b>&lt;5</b>	<5	---
Titanium (Ti)	ppm	<b>&lt;5</b>	<5	---
Vanadium (V)	ppm	<b>&lt;5</b>	<5	---
Barium (Ba)	ppm	<b>&lt;5</b>	<5	---
Boron (B)	ppm	<b>&lt;5</b>	<5	---
Calcium (Ca)	ppm	<b>49</b>	49	---
Magnesium (Mg)	ppm	<b>&lt;5</b>	<5	---
Phosphorus(P)	ppm	<b>380</b>	393	---
Silicon (Si)	ppm	<b>&lt;5</b>	<5	---
Zinc (Zn)	ppm	668	<b>▲ 474</b>	▲ 487
Sulfur (S)	ppm	<b>1,720</b>	1,730	---

Customer Id: ENC0005J03  
Sample No.: EN23120071  
Lab Number: 23120071  
Test Package: TEST



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To discuss the diagnosis or test data:

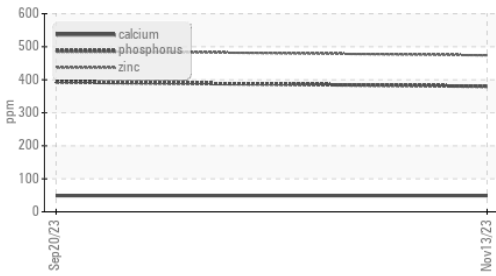
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To change component or sample information:

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# OIL ANALYSIS REPORT

### ▲ Additives



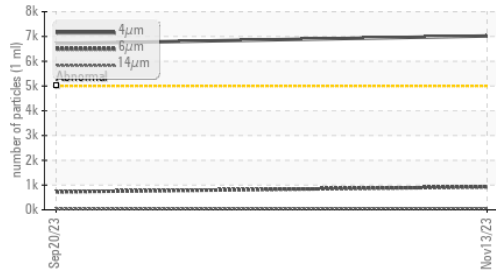
### DR FERROGRAPHY READINGS

L		■ 2.5	■ 4.6	---
S		■ 0.1	■ 2.3	---
WPC	DL + DS	■ 2.6	■ 6.9	---

### CONTAMINATION

Water	>0.05	<b>NEG</b>	NEG	---
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### ▲ Particle Trend



### Viscosity @ 40°C

