

LABORATORY ANALYSIS



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Department **TRANSFER ATIZAPAN**
Equipment No. **449 MAZAK 11 (00011)**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (--- GAL)**

DIAGNOSIS

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The oil is near the end of its useful service life, recommend schedule an oil change. We advise that you follow the water drain-off procedure for this component. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. There is a high concentration of water present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. Zinc (Zn) ppm levels are abnormally low.

SAMPLE INFORMATION

Lab Number	New	2312-00070	2310-00450	---
Date of Sample	(Typical)	13 Nov 2023	20 Sep 2023	---
Oil Added		UNK	UNK	---
Last Drain Date		--	---	---
Last Filter Service		--	---	---
Sample Point		---	---	---
Sample Status		SEVERE	ABNORMAL	---

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

SSU Vis. @ 100F	SSU	178.6	176.8	---
cSt Vis. @ 40C	cSt	32.0	34.22	---

% WATER - KARL FISCHER (ASTM E203)

% Water (KF)	%	0.564	---	---
ppm Water (KF)	ppm	5,640	---	---

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	22/19/13	17/15/11	---
4 Micron & Larger	particles/ml	>5000	▲ 27,020	1,257	---
6 Micron & Larger	particles/ml	>2500	▲ 3,337	207	---
14 Micron & Larger	particles/ml	>160	■ 64	19	---
21 Micron & Larger	particles/ml	>40	■ 18	5	---
38 Micron & Larger	particles/ml	>10	■ 0	1	---
70 Micron & Larger	particles/ml	>3	■ 0	1	---

ICP - OILS (REPORTED IN PARTS PER MILLION)

Aluminum (Al)	ppm	<5	<5	---
Antimony (Sb)	ppm	<5	<5	---
Cadmium (Cd)	ppm	<5	<5	---
Chromium (Cr)	ppm	<5	<5	---
Cobalt (Co)	ppm	<5	<5	---
Copper (Cu)	ppm	■ 16	15	---
Iron (Fe)	ppm	■ 22	21	---
Lead (Pb)	ppm	12	10	---
Manganese (Mn)	ppm	<5	<5	---
Molybdenum(Mo)	ppm	<5	<5	---
Nickel (Ni)	ppm	<5	<5	---
Silver (Ag)	ppm	<5	<5	---
Tin (Sn)	ppm	<5	<5	---
Titanium (Ti)	ppm	<5	<5	---
Vanadium (V)	ppm	<5	<5	---
Barium (Ba)	ppm	<5	<5	---
Boron (B)	ppm	10	<5	---
Calcium (Ca)	ppm	28	29	---
Magnesium (Mg)	ppm	8	8	---
Phosphorus(P)	ppm	328	321	---
Silicon (Si)	ppm	<5	<5	---
Zinc (Zn)	ppm	668	▲ 341	▲ 348
Sulfur (S)	ppm	2,780	2,610	---

Customer Id: ENC0005J03
Sample No.: EN23120070
Lab Number: 23120070
Test Package: TEST



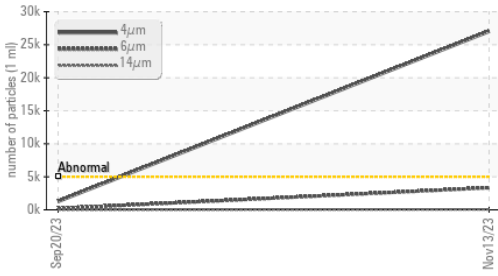
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OIL ANALYSIS REPORT

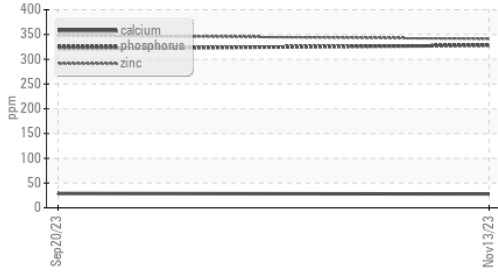
▲ Particle Trend



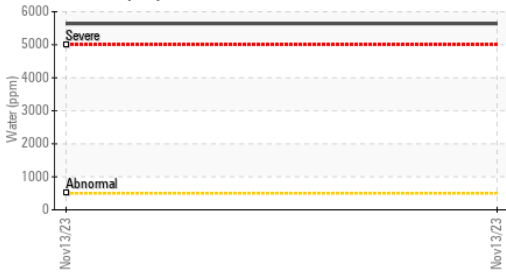
DR FERROGRAPHY READINGS

L		■ 11.1	■ 4.2	---
S		■ 4.9	■ 3.7	---
WPC	DL + DS	■ 16	■ 7.9	---

▲ Additives



Water (KF)



Viscosity @ 40°C

