

# LABORATORY ANALYSIS



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Department **MAQUINADOS 1**  
Equipment No. **447 HAAS VERTICAL MILL MAZAK 9 (X0003)**  
System **Machining Fluid**  
Oil Type **ENGINEERED LUBRICANTS ENCOOL SOL-3250FNF-LF (--- GAL)**

## DIAGNOSIS

Drain off 10 gallons from the reservoir. The partial drain will remove some of the water hardness. Inspect DI/RO Water system is operating properly. Top off reservoir. Add ENGINEERED LUBRICANTS ENCOOL SS-7271EP-ASM concentrate until reaching a dilution of 15:1. The desired refractometer reading for this reservoir is 3.57.(not applicable) Hardness reading is high and action needs to be taken to reduce mg/l CaCO3 level. Ratio is too strong.

## SAMPLE INFORMATION

Lab Number	New	<b>2307-01119</b>	2305-01083	---
Date of Sample	(Typical)	<b>11 Jul 2023</b>	19 May 2023	---
Oil Added		<b>UNK</b>	UNK	---
Last Drain Date		--	--	---
Last Filter Service		--	--	---
Sample Point		---	---	---
Sample Status		<b>SEVERE</b>	SEVERE	---

## RATIO PER REFRACTOMETER

Refract. Reading		<b>20.8</b>	19.6	---
Refract. Model		<b>DIGITAL</b>	DIGITAL	---
Refract. Ratio	oil:water	<b>▲ 1.5:1</b>	▲ 2:1	---

## PH (ASTM E-70)

pH	Scale 0-14	<b>■ 9.3</b>	■ 9.4	---
Ratio Rec'd	oil:water	<b>AS REC'D</b>	AS REC'D	---

## HARDNESS (MG/L CaCO3)

Hardness (CaCO3)	mg/L	<b>■ 1383.7</b>	■ 910.5	---
Grains		<b>81.4</b>	53.6	---

## BACTERIA COUNT (CLASS RANGE 0 TO 6)

Bacteria Class	Scale 0-6	<b>■ 0</b>	■ 0	---
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## FUNGUS COUNT (CLASS RANGES: YEAST 0 TO 4/MOLD 0 TO 3)

Yeast Class	Scale 0-4	<b>■ 0</b>	■ 0	---
Mold Class	Scale 0-3	<b>■ 0</b>	■ 0	---

## TRAMP OIL, CUFF & SEDIMENT

% Sediment	%	<b>0.20</b>	TRACE	---
% Tramp Oil	%	<b>NONE</b>	NONE	---
% Cuff	%	<b>NONE</b>	NONE	---

Customer Id: ENC0005J03  
Sample No.: EN23071119  
Lab Number: 23071119  
Test Package: TEST



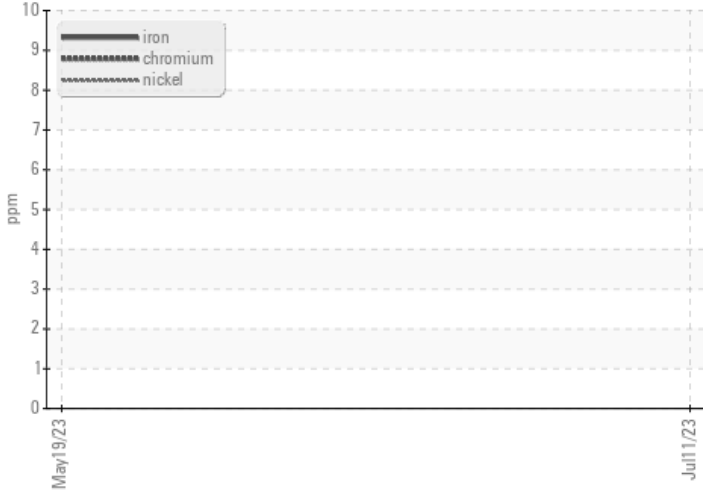
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To discuss the diagnosis or test data:  
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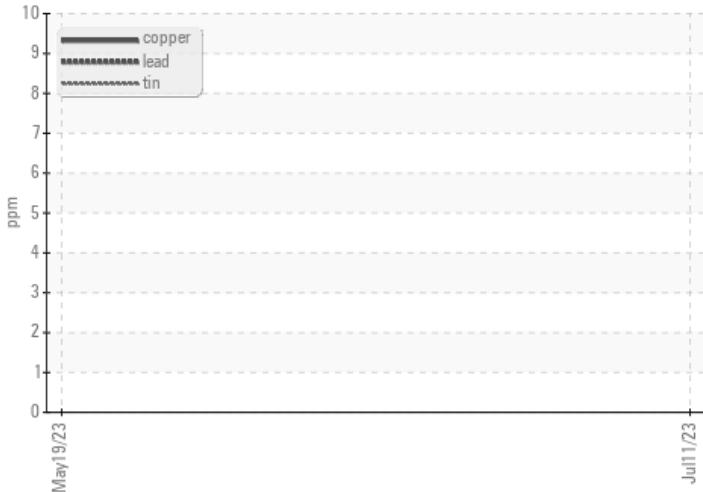
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# FUEL REPORT

### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C

