

# LABORATORY ANALYSIS



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**PLANET TOOL & ENGINEERING**  
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Department **LATHE**  
Equipment No. **LB300 (X0002)**  
System **Machining Fluid**  
Oil Type **ENGINEERED LUBRICANTS ENCOOL SS-7478EP-AS (55 GAL)**

## DIAGNOSIS

Add make up dilution of 50:1 ENGINEERED LUBRICANTS ENCOOL SS-7478EP-AS lean dilution until reaching recommended dilution of 15:1. The desired refractometer reading for this reservoir is 2.01. Inspect the reservoir for settled chips/fines, tramp oils, physical growth and remove them before there is an accumulation. Add a "severe" dose of BioTech 084, 6 ounces to the tank side reservoir in an area of high agitation. Follow up three days later with a "maintenance" dose, 1.4 ounces, to stabilize the microbial additive package. Circulate the coolant daily for proper aeration.(not applicable) Elevated bacteria counts. Small amount of yeast present. Excessively high mold counts. Ratio is too strong.

## SAMPLE INFORMATION

Lab Number	New	<b>2307-00275</b>	2305-00442	2303-00078
Date of Sample	(Typical)	<b>07 Jul 2023</b>	08 May 2023	06 Mar 2023
Oil Added		<b>UNK</b>	UNK	UNK
Last Drain Date		--	--	--
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		<b>SEVERE</b>	SEVERE	SEVERE

## RATIO PER REFRACTOMETER

Refract. Reading		<b>9.6</b>	4.2	3.7
Refract. Model		<b>DIGITAL</b>	DIGITAL	DIGITAL
Refract. Ratio	oil:water	<b>5:1</b>	13:1	15:1

## PH (ASTM E-70)

pH	Scale 0-14	<b>9.0</b>	8.6	8.7
Ratio Rec'd	oil:water	<b>AS REC'D</b>	AS REC'D	AS REC'D

## BACTERIA COUNT (CLASS RANGE 0 TO 6)

Bacteria Class	Scale 0-6	<b>3</b>	5	2
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## FUNGUS COUNT (CLASS RANGES: YEAST 0 TO 4/MOLD 0 TO 3)

Yeast Class	Scale 0-4	<b>2</b>	3	3
Mold Class	Scale 0-3	<b>3</b>	3	2

Customer Id: ENC0303701  
Sample No.: EN23070275  
Lab Number: 23070275  
Test Package: TEST



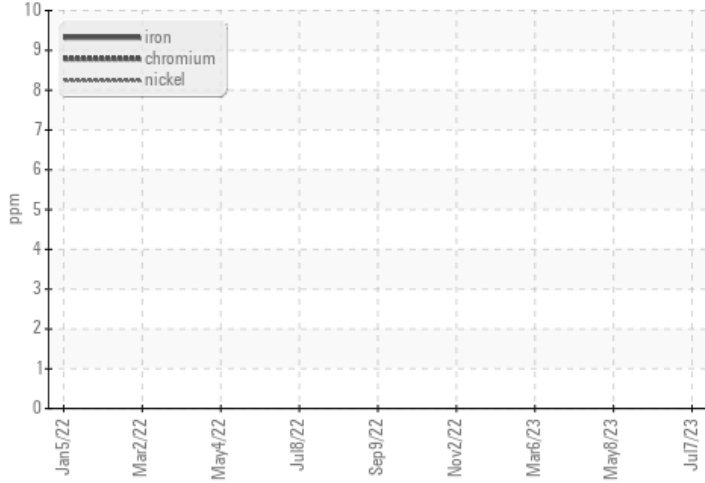
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To discuss the diagnosis or test data:  
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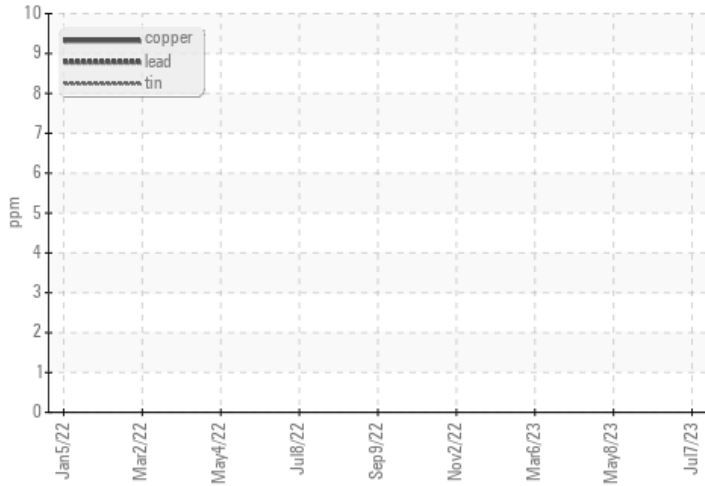
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# FUEL REPORT

### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C

