

# LABORATORY ANALYSIS



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Department **MACHINING**  
 Equipment No. **BROTHER TC-32BN ASSET #1551 (X0007)**  
 System **Machining Fluid**  
 Oil Type **ENGINEERED LUBRICANTS ENCOOL SS-7478EP-AS (74 GAL)**

**NMCA-PRN**  
 DIV. OF EMERSON ELECTRIC CO., P. O. BOX 326  
 PRINCETON, IN  
 US 47670  
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## 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 3.59.{not applicable} There is no indication of any contamination in the machining fluid. Ratio is slightly strong.

## Sample Information

Lab Number	New	<b>2404-01064</b>	2312-00839	2308-01322
Date of Sample	(Typical)	<b>23 Apr 2024</b>	19 Dec 2023	24 Aug 2023
Oil Added		<b>UNK</b>	UNK	UNK
Last Drain Date		--	--	--
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## RATIO PER REFRACTOMETER

Refract. Reading		<b>5.9</b>	6.9	5.7
Refract. Model		<b>DIGITAL</b>	DIGITAL	DIGITAL
Refract. Ratio	oil:water	<b>▲ 9:1</b>	▲ 7:1	▲ 9:1

## pH (ASTM E-70)

pH	Scale 0-14	<b>■ 9.1</b>	■ 9.1	■ 9.0
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>■ 0</b>	■ 0	■ 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	■ 0
Mold Class	Scale 0-3	<b>■ 0</b>	■ 0	■ 1

## Contamination

Water		<b>NEG</b>	NEG	NEG
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Customer Id: NMCPRI  
 Sample No.: EN0000232  
 Lab Number: 24041064  
 Test Package: TEST



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To discuss the diagnosis or test data:

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# FUEL REPORT