LABORATORY ANALYSIS

ENGINEERED LUBRICANTS
11525 Rock Island Court, St. Louis, MO 63043
Tel: 1-800-876-0008 info@englube.com

Department **TOOL ROOM**

Equipment No. **1061 CNC MILL (00061)**

System **Unknown Component**

Oil Type **MAKINO SPINDLE LUBRICANT (--- GAL)**

BACHMAN MACHINE COMPANY
4321 NORTH BROADWAY, 008901
ST LOUIS, MO
US 63147
Contact: Michael McKenzie
mke.mckenzie@bachmanmachine.com
T: (314)231-4221
F: (314)231-1201

Diagnosis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the sample. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. The sample is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sample Information

Lab Number		New	**2404-00482**	2312-00331	2305-00743
Date of Sample		(Typical)	**05 Apr 2024**	01 Dec 2023	19 May 2023
Oil Added			**UNK**	UNK	UNK
Last Drain Date			**--**	--	--
Months on Sample			**151.8**	147.8	141.5
Last Filter Service			**--**	--	--
Sample Point			**---**	---	---
Sample Status			**ABNORMAL**	ATTENTION	NORMAL

VISCOSITY @ 100F or 40C (ASTM D445)

SSU Vis. @ 100F	SSU		**34.0**	33.7	33.48
cSt Vis. @ 40C	cSt		**2.337**	2.334	---

% WATER - RELATIVE HUMIDITY SENSOR (ASTM D7546)

% Water	%		**0.009**	0.002	0.007
ppm Water	ppm		**90**	20	70

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>16/14/12	**19/16/13**	16/15/12	16/14/11
4 Micron & Larger	particles/1ml	>640	**2,510**	433	451
6 Micron & Larger	particles/1ml	>160	**623**	178	154
14 Micron & Larger	particles/1ml	>40	**43**	21	17
21 Micron & Larger	particles/1ml	>10	**11**	5	5
38 Micron & Larger	particles/1ml	>3	**1**	0	1
70 Micron & Larger	particles/1ml	>3	**0**	0	0

DR FERROGRAPHY READINGS

L			**3.2**	1.4	1.7
S			**1.4**	0.9	1.3
WPC	DL + DS		**4.6**	2.3	3

Customer Id: BACSTL
Sample No.: EN24040482
Lab Number: 24040482
Test Package: TEST

To manage this report scan the QR code

To discuss the diagnosis or test data:
Beau Vuagniaux +1
bvuagniaux@englube.com

To change component or sample information:
Tracy Weaks +1 (314)872-9540
tweaks@englube.com

OIL ANALYSIS REPORT