



OIL REPORT

LAB NUMBER: J99270
 REPORT DATE: 2/23/2019
 CODE: 20/75

UNIT ID: M32-GEAR
 CLIENT ID:
 PAYMENT: Prepaid (Bulk)

UNIT	MAKE/MODEL: Mazak CNC Lathe	OIL TYPE & GRADE:
	FUEL TYPE:	OIL USE INTERVAL:
	ADDITIONAL INFO:	

CLIENT	
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COMMENTS There is a lot of iron and copper in this first sample from M32 and they show excess wear at steel and brass/bronze parts respectively. Maybe the extra wear is related to a very long run, or maybe some of this is break-in if this is a new unit. Silicon could be abrasive contamination or harmless sealers/lubes. The sample tested positive for water and that's certainly not helping things. There was enough water that we couldn't test the flashpoint. Insolubles (oxidized solids) were quite high at 0.6%, possibly from excess heat and/or use. Change this oil and check back.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil		UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit							
	Sample Date	2/1/2019						
	Make Up Oil Added							
ALUMINUM	2	1					0	
CHROMIUM	1	1					0	
IRON	201	140					6	
COPPER	14	7					5	
LEAD	2	4					1	
TIN	0	0					0	
MOLYBDENUM	0	0					0	
NICKEL	0	0					0	
MANGANESE	3	1					0	
SILVER	2	1					0	
TITANIUM	0	0					0	
POTASSIUM	0	1					0	
BORON	7	5					1	
SILICON	10	4					1	
SODIUM	4	7					3	
CALCIUM	14	21					80	
MAGNESIUM	1	2					9	
PHOSPHORUS	279	224					315	
ZINC	46	25					379	
BARIUM	0	0					2	

Values Should Be*

PROPERTIES						
	SUS Viscosity @ 210°	52.9	51-58			
cSt Viscosity @ 100°C	8.15	7.6-9.9				
Flashpoint in °F	BOIL	>450				
Fuel %	-					
Antifreeze %	-					
Water %	POS	<0.1				
Insolubles %	0.6	<0.1				
TBN						
TAN						
ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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