



OIL REPORT

LAB NUMBER: J
 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		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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