MARK: You doubled your oil run this time, and both copper and lead doubled as well. That's not what we like to see. Sodium may be a trickle of coolant in the oil, but we think the more likely explanation is that it's additive in the oil. Without potassium present, we're hesitant to call antifreeze at this time. High copper and lead are nothing new for this rotary, but these increases do warrant monitoring. Fuel dilution improved a little this time, so that's good news. The viscosity improved slightly since there was less fuel in the oil. It was in the 5W/20 range. Check back.

MI/HR on Oil	2,000	UNIT / LOCATION AVERAGES	1,000	4,000			
MI/HR on Unit	85,000		83,000	82,000			UNIVERSAL
Sample Date	06/11/10		01/03/10	10/31/09			AVERAGES
Make Up Oil Added	0 qts		0 qts	0 qts			
ALUMINUM	1	2	2	2			3
CHROMIUM	1	1	1	1			2
IRON	22	19	12	24			13
COPPER	26	19	10	22			3
LEAD	53	39	23	42			4
TIN	0	1	0	3			0
MOLYBDENUM	2	8	5	16			39
NICKEL	0	0	0	1			0
MANGANESE	0	0	0	0			3
SILVER	0	0	0	0			0
TITANIUM	0	0	0	0			0
POTASSIUM	3	3	2	3			3
BORON	15	12	8	14			36
SILICON	11	11	12	10			18
SODIUM	26	21	19	17			60
CALCIUM	1724	1780	1410	2206			1854
MAGNESIUM	6	8	7	10			63
PHOSPHORUS	838	711	536	758			664
ZINC	1099	909	675	952			830
BARIUM	0	0	0	0			0
		Values			-	•	

Should Be*

SUS Viscosity @ 210°F	50.8	67-80	48.7	57.8		
cSt Viscosity @ 100°C	7.51	12.1-15.8	6.88	9.59		
Flashpoint in °F	260	>385	215	285		
Fuel %	6.3	<2.0	8.0	5.0		
Antifreeze %	?	0.0	0.0	0.0		
Water %	0.0	<0.1	0.0	0.0		
Insolubles %	0.3	<0.7	0.3	0.3		
TBN				5.7		
TAN						
ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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COMMENTS

LIABILITY LIMITED TO COST OF ANALYSIS