



## OIL REPORT

LAB NUMBER: F61789

UNIT ID: PENTOSIN

REPORT DATE: 7/1/2013

CLIENT ID: [REDACTED]

CODE: 63/501

PAYMENT: Prepaid

**UNIT**MAKE/MODEL: Virgin Oil  
FUEL TYPE:  
ADDITIONAL INFO:OIL TYPE & GRADE: Pentosin 507.00 5W/30  
OIL USE INTERVAL:**CLIENT**BOB F. [REDACTED]  
[REDACTED]

PHONE: (503) [REDACTED]

FAX:

ALT PHONE:

EMAIL: [REDACTED]

**COMMENTS**

BOB: It's strange to find metal in a virgin sample, but there's aluminum here. We even had it run twice to verify. It's probably not additive or anything like that. It could be from the transportation or storage process. 7 ppm still isn't a lot of metal, so it's probably not harmful, though it's hard to say for sure. Interestingly, your used sample has a lot of aluminum in it, but it's unlikely that the two are related. The viscosity was normal for 5W/30. The TBN was 5.5 showing active additive left. 1.0 or less is low. Due to aluminum, this oil is borderline serviceable.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil		UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit								
	Sample Date	06/15/13							
	Make Up Oil Added								
	ALUMINUM	7							
	CHROMIUM	0							
	IRON	0							
	COPPER	0							
	LEAD	0							
	TIN	0							
	MOLYBDENUM	0							
	NICKEL	0							
	MANGANESE	0							
	SILVER	0							
	TITANIUM	0							
	POTASSIUM	0							
	BORON	6							
	SILICON	0							
	SODIUM	0							
	CALCIUM	1672							
	MAGNESIUM	5							
	PHOSPHORUS	800							
	ZINC	937							
	BARIUM	0							

Values  
Should Be\*

PROPERTIES	SUS Viscosity @ 210°F	65.0	57-65					
	cSt Viscosity @ 100°C	11.60	9.4-11.9					
	Flashpoint in °F	420	>410					
	Fuel %	-	<2.0					
	Antifreeze %	-	0.0					
	Water %	0.0	<0.1					
	Insolubles %	TR	<0.6					
	TBN	5.5	>1.0					
	TAN							
	ISO Code							

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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