



OIL REPORT

LAB NUMBER: E07472
 REPORT DATE: 3/26/2010
 CODE: 63/286

UNIT ID: BRAD PENN
 CLIENT ID:
 PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Virgin 10W/30	OIL TYPE & GRADE: Brad Penn 10W/30
	FUEL TYPE:	OIL USE INTERVAL: 0
	ADDITIONAL INFO:	

CLIENT	BILL LATTIMER	PHONE: (426) -
	MONROE, WA 98272	FAX:
		ALT PHONE:
		EMAIL: billla@warbird.org

COMMENTS
 BILL: The viscosity of this oil measured in the correct range for a 10W/30. No significant metals or moisture were present in this sample. A trace of insolubles turned up, and may show slight oxidation of the oil. This is not going to hurt anything in your engines, though. Calcium, magnesium, phosphorus and zinc are all typical additives in an engine oil. Note sodium, which is also an additive. The starting TBN for this sample was strong at 11.5, showing lots of active additive ready for use. This will be good oil for you.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	0	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit							
	Sample Date	03/19/10						
	Make Up Oil Added							
ALUMINUM	1	1						0
CHROMIUM	0	0						0
IRON	3	3						1
COPPER	0	0						0
LEAD	0	0						0
TIN	0	0						0
MOLYBDENUM	0	0						48
NICKEL	0	0						0
MANGANESE	0	0						0
SILVER	0	0						0
TITANIUM	0	0						0
POTASSIUM	0	0						1
BORON	2	2						50
SILICON	5	5						4
SODIUM	343	343						40
CALCIUM	1316	1316						1743
MAGNESIUM	561	561						93
PHOSPHORUS	1026	1026						677
ZINC	1300	1300						794
BARIUM	0	0						0

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	59.4	59-65				
	cSt Viscosity @ 100°C	10.06	9.9-11.9				
	Flashpoint in °F	415	>395				
	Fuel %	-	<2.0				
	Antifreeze %	-	0.0				
	Water %	0.0	<0.1				
	Insolubles %	TR	<0.6				
	TBN	11.5					
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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