UNIT

EQUIP. MAKE/MODEL: Virgin 20W/50
FUEL TYPE:
ADDITIONAL INFO:

OIL TYPE & GRADE: Mobil 1 20W/50
OIL USE INTERVAL: 0

COMMENTS

WILLIAM: Two wear metals were found in this sample at very low levels. The 1 ppm of aluminum and lead we found likely came from the distribution chain through which this oil was transported. Calcium was the dominant additive and it is a detergent/dispersant additive along with boron and magnesium. Phosphorus and zinc are from the anti-wear compound. No moisture or insolubles were present. The TBN read 10.4, showing abundant active additive in the oil. We consider 1.0 to be too low for extended use. We think this oil should serve your engine(s) well.

ELEMENTS IN PARTS PER MILLION

MI/HR on Oil	0	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
MI/HR on Unit								
Sample Date	11/11/06							
Make Up Oil Added								
ALUMINUM	1	1						0
CHROMIUM	0	0						0
IRON	0	1						1
COPPER	0	0						0
LEAD	1	1						0
TIN	0	0						0
MOLYBDENUM	86	45						117
NICKEL	0	0						0
MANGANESE	0	0						0
SILVER	0	0						0
TITANIUM	0	0						0
POTASSIUM	0	0						1
BORON	192	102						46
SILICON	5	4						4
SODIUM	5	4						18
CALCIUM	2239	2905						1636
MAGNESIUM	10	12						117
PHOSPHORUS	1441	1266						853
ZINC	1629	1465						901
BARIUM	0	0						0

PROPERTIES

		Values Should Be*					
SUS Viscosity @ 210°F	102.7	81-102					
cSt Viscosity @ 100°C	20.98	15.8-21.1					
Flashpoint in °F	450	>420					
Fuel %	-	<2.0					
Antifreeze %	-	0.0					
Water %	0.0	<0.1					
Insolubles %	0.0	<0.7					
TBN	10.4						
TAN							
ISO Code							