

MAKE/MODEL: Mercruiser 496 ~~HO~~ V-8 HO
 FUEL TYPE: Gasoline (Unleaded)
 OIL TYPE & GRADE: Amsoil Series 2000 20W/50 Race
 OIL USE INTERVAL: 36 Hours

ADDITIONAL INFO:

COMMENTS: WILLIAM: We don't see any signs of this oil being overheated. Wear looks good and wear-in is progressing nicely, though we found quite a bit of fuel in the oil. 3.8% is still well into our cautionary range and may show a fuel system problem. The fuel lowered the viscosity of the oil down to the 10W/40 range. The fuel could be from driving a lot in town, or idling in the mornings. The TBN was very strong at 9.4. Be sure to keep an eye on your oil level. If it rises or you smell gas on the dipstick you can be sure a problem exists. Check back.

4
3
2
1

UNIT / LOCATION	MI/HR on Unit	MI/HR on Oil	ALUMINUM	CHROMIUM	IRON	COPPER	LEAD	TIN	MOLYBDENUM	NICKEL	MANGANESE	SILVER	TITANIUM	POTASSIUM	BORON	SILICON	SODIUM	CALCIUM	MAGNESIUM	PHOSPHORUS	ZINC	BARIUM	
36	256	36	2	1	17	13	5	0	4	0	1	0	0	3	24	37	8	2676	115	940	1122	0	
UNIT / LOCATION AVERAGES	01/18/08	0 qts	7	2	44	19	6	1	25	1	1	0	0	4	63	51	8	2004	383	1068	1289	0	
90	90	80	5	2	23	10	3	1	10	1	2	0	0	2	19	25	4	3049	15	980	1187	0	
170	170	170	15	4	89	35	10	2	73	1	2	0	0	4	108	43	16	1743	196	1145	1395	0	
3/20/06	3/20/06	0 qts	6	1	48	16	4	1	14	0	0	0	0	5	99	99	8	548	1205	1205	1453	0	
UNIVERSAL AVERAGES	0 qts	0 qts																					

PROPERTIES		SUS Viscosity @ 210°F	CST Viscosity @ 100°C	Flashpoint in °F	Fuel %	Antifreeze %	Water %	Insolubles %	TBN	TAN	ISO Code
Amsoil	20W50	67.3	12.24	>385	3.8	0.0	0.0	0.3	9.4		
Amsoil	20W50	77.94	14.8-19.2	>385	<2.0	0.0	<0.1	<0.6	7.4		
Amsoil	20W50	64.6	11.49	285	5.0	0.0	0.0	0.3	4.2		
Mobil 1	20W50	76.2	14.55	365	1.0	0.0	0.0	0.2	4.7		
Mobil 1	20W40	62.7	10.97	335	1.5	0.0	0.0	0.3			

OIL		Amsoil	Amsoil	Mobil 1	Mobil 1
CHANGES TO ENGINE	INTAKE PISTONS CRANK BEARING BRASS VALVE GUIDES REPLACED	EXHAUST CAM HEADS (BRASS) VALVE GUIDES (BRASS) ROCKERS P RODS	RAW FUEL	RAW FUEL	RAW FUEL
APPROX HP	600	540	540	490	425
RPM	5800	5400	5400	5400	5200
COMMENTS	SEATINGS 30WT 15MIN. MEAC 20W40 3HR	SEATINGS 30WT 15MIN. MEAC 20W40 3HR	SEATINGS 30WT 15MIN. MEAC 20W40 3HR	SEATINGS 30WT 15MIN. MEAC 20W40 3HR	SEATINGS 30WT 15MIN. MEAC 20W40 3HR