

OIL REPORT **LAB NUMBER:** D45280 **REPORT DATE:** 7/11/2008

CODE: 20/284

CLIENT ID: 20662
PAYMENT: Prepaid

UNIT ID: C320 HULL 690

MAKE/MODEL: Yanmar 3GM30F OIL TYPE & GRADE: Mobil Delvac 15W/40

FUEL TYPE: Diesel OIL USE INTERVAL: 173 Hours

ADDITIONAL INFO:

KARL MIELENHAUSEN PHONE: (252) 638-1433

2042 ROYAL PINES DR FAX:

NEW BERN, NC 28560 ALT PHONE:

EMAIL: kmielen@suddenlink.net

DMMENTS

CLIENT

KARL: Things are still looking great with your C320 Hull 690 diesel engine. Wear metals continue to read low, which shows that the engine is running fine. Iron read a bit higher, and that is from the longer oil run. It is still in line with what we would expect; you mentioned the 150 hrs on the oil in the last 60 days. The flashpoint has managed come back to normal; your lower fuel dilution rate (<0.5%) is the reason. Some soot (unburned diesel fuel) was found in the oil, but at completely acceptable (not harmful) levels. We love working with this engine's oil!

	MI/HR on Oil	173		91	106	48		
	MI/HR on Unit	918	UNIT / LOCATION AVERAGES	745	654	548		UNIVERSAL
	Sample Date	07/01/08		11/12/07	11/27/06	11/01/05		AVERAGES
	Make Up Oil Added	1 qt		0 qts	0 qts			
S	ALUMINUM	6	6	6	7	4		6
LIO	CHROMIUM	3	2	2	2	2		3
MIL	IRON	29	25	21	30	19		31
	COPPER	3	4	4	7	2		6
ER	LEAD	3	4	7	4	2		4
Д	TIN	1	1	0	1	1		1
LS	MOLYBDENUM	80	104	60	199	76		40
Ŗ	NICKEL	0	0	0	0	0		0
РА	MANGANESE	0	0	0	0	0		0
Z	SILVER	0	0	0	0	0		0
S	TITANIUM	0	0	0	0	0		0
Ĕ	POTASSIUM	3	1	1	0	1		1
	BORON	45	77	52	106	104		67
EM	SILICON	6	6	6	5	5		11
н	SODIUM	2	2	2	2	3		6
	CALCIUM	3424	3068	2621	3147	3078		2944
	MAGNESIUM	270	195	464	12	33		134
	PHOSPHORUS	1279	1211	1224	1116	1224		1065
	ZINC	1505	1444	1531	1335	1405		1240
	BARIUM	0	0	0	0	0		0

Values Should Be*

	SUS Viscosity @ 210°F	72.5	69-78	71.7	71.2	62.6	
S	cSt Viscosity @ 100°C	13.62	12.7-15.3	13.39	13.26	10.94	
	Flashpoint in °F	420	>415	405	390	430	
	Fuel %	<0.5	<2.0	1.0	1.5	<0.5	
S.	Antifreeze %	0.0	0.0	0.0	0.0	0.0	
ROPE	Water %	0.0	<0.1	0.0	0.0	0.0	
	Insolubles %	0.5	<0.8	0.4	0.4	0.5	
Д	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE