


**Topaz**

Location: Fishing Vessel  
 Unit ID: **Main Engine**  
 Model: Caterpillar  
 Machine Type: Engine, Diesel: Liquid-Cooled



Wear appears satisfactory.No Significant signs of contamination.Advice: Monitor at the next sampling period.

S.M., 02 Oct 2012

Oil Q8 T750		Sample ID		204BCE (L10316)				
Note:		Sampled on		20 Sep 2012				
		Received on		26 Sep 2012				
		Km Total						
		Km Oil		500				
		Top up (l.)						
			Warning Limits					
ASTM D6595-00 WEAR METALS	Iron	ppm	60	5				
	Chromium	ppm	15	<1				
	Nickel	ppm		<1				
	Molybdenum	ppm		<1				
	Aluminium	ppm	10	2				
	Lead	ppm	20	4				
	Copper	ppm	20	<1				
	Tin	ppm		<1				
	Silver	ppm		<1				
	Titanium	ppm		<1				
ASTM D6595-00 CONTAMINANTS	Silicon	ppm	15	3				
	Sodium	ppm		4				
	Vanadium	ppm		<1				
ASTM D6595-00 ADDITIVES	Calcium	ppm		2749				
	Magnesium	ppm		11				
	Phosphorus	ppm		1304				
	Zinc	ppm		1531				
	Barium	ppm		<1				
	Boron	ppm		<1				
ASTM D445	Viscosity at 40Å°C	cSt		94				
ASTM D445	Viscosity at 100Å°C	cSt		13.5				
ASTM E2412	TBN	mg KOH/g		7.94				
	Water	ppm	5000.0	231.3				
	OX	abs/mm2		15.9				
	Glycol (Antifreeze)	%		0.0				
	Soot	%wt		0.1				
	Fuel Dilution		7.0	0.0				

Date 02 Oct 2012 Lab Supervisor \_\_\_\_\_