



OIL REPORT

LAB NUMBER: E68317

UNIT ID: 08 EVOX

REPORT DATE: 8/24/2011

CLIENT ID: 29494

CODE: 63/501

PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Mitsubishi 2.0L Turbo (4B11)	OIL TYPE & GRADE: Amsoil 10W/40
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 2,500 Miles
	ADDITIONAL INFO: Engine sees drag racing, Auto Cross; uses E85.	

CLIENT	CHRIS SCHEIDECKER	PHONE: (651) 236-0985
	3919 QUEEN AVE N	FAX:
	MINNEAPOLIS, MN 56412	ALT PHONE: (612) 850-1407
		EMAIL: chris@snowsecurity.com

COMMENTS CHRIS: Thanks for the note that this engine sees time at the track. Any time an engine sees hard use, wear could be affected. In the case of your engine, it looks like it's wearing a little more than average at the bearings (see iron, copper, and lead), and that may very well be due to the racing. Averages are based on about 3,300 miles on the oil, and all other metals look fine in comparison. There wasn't any fuel, coolant, water, or dirt present. The TBN of 5.9 shows active additive left since 1.0 is low. Try another run of 2,500 miles to monitor bearing wear.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	2,500	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	7,500						
	Sample Date	07/19/11						
	Make Up Oil Added	0.5 qt						
ALUMINUM	7	7					6	
CHROMIUM	1	1					1	
IRON	31	31					22	
COPPER	8	8					3	
LEAD	7	7					2	
TIN	0	0					0	
MOLYBDENUM	6	6					91	
NICKEL	1	1					0	
MANGANESE	1	1					1	
SILVER	0	0					0	
TITANIUM	2	2					0	
POTASSIUM	0	0					5	
BORON	7	7					83	
SILICON	13	13					13	
SODIUM	11	11					10	
CALCIUM	3532	3532					2511	
MAGNESIUM	13	13					65	
PHOSPHORUS	1145	1145					730	
ZINC	1428	1428					834	
BARIUM	1	1					1	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	71.4	65-76				
	cSt Viscosity @ 100°C	13.31	11.6-14.8				
	Flashpoint in °F	410	>375				
	Fuel %	<0.5	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	<0.1				
	Insolubles %	0.2	<0.6				
	TBN	5.9					
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com