



OIL REPORT

LAB NUMBER:
 REPORT DATE: 9/21/2015
 CODE: 20/501

UNIT ID:
 CLIENT ID:
 PAYMENT:

UNIT	EQUIP. MAKE/MODEL: Harley Davidson Twin Cam 103	OIL TYPE & GRADE: Amsoil MCV 20W/50
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 2,848 Miles
	ADDITIONAL INFO:	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

COMMENTS This was sample "D2" from this batch, and it looks great. The viscosity went a bit thick during this run, but that didn't translate into any excess wear. In fact, your engine made less metal during this longer oil change than the last, and the TBN was stronger than before at 8.2. Excess heat can make a viscosity thicken up, but that normally comes along with high insolubles and they read at just a trace. This oil could see another 2,000 miles. Also note the change in additives (calcium and boron), though the slip said this was the same type of Amsoil as the last fill.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	2,848	UNIT / LOCATION AVERAGES	1,000				UNIVERSAL AVERAGES
	MI/HR on Unit	19,427		16,609				
	Sample Date	8/11/2015		8/28/2015				
	Make Up Oil Added	0 qts		0 qts				
ALUMINUM	2	4	2				4	
CHROMIUM	0	0	0				1	
IRON	6	10	4				13	
COPPER	5	10	10				15	
LEAD	0	0	0				2	
TIN	0	1	2				1	
MOLYBDENUM	60	58	98				131	
NICKEL	0	0	0				1	
MANGANESE	1	4	1				3	
SILVER	0	0	0				0	
TITANIUM	0	0	0				0	
POTASSIUM	0	2	2				3	
BORON	51	84	278				134	
SILICON	12	14	18				12	
SODIUM	3	5	2				21	
CALCIUM	3105	2997	1541				2503	
MAGNESIUM	140	198	611				312	
PHOSPHORUS	1048	1084	1045				1172	
ZINC	1377	1441	1341				1493	
BARIUM	0	1	0				1	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	106.9	81-102	100.9			
	cSt Viscosity @ 100°C	21.97	15.8-21.1	20.58			
	Flashpoint in °F	420	>385	425			
	Fuel %	<0.5	<2.0	<0.5			
	Antifreeze %	-	0.0	-			
	Water %	0.0	<0.1	0.0			
	Insolubles %	TR	<0.6	TR			
	TBN	8.2	>1.0	6.0			
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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