



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: Dynacycle Semi-Syn 20W/50
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 2,883 Miles
	ADDITIONAL INFO:	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

COMMENTS The viscosity of this sample of Dynacycle 20W/50 was within spec. We did find more iron, which isn't the normal trend we'd expect from oil that has fewer miles on it than the first sample. Aluminum went up too, so the engine made more piston and steel wear than it did the last time around. Maybe something changed in the operation the engine sees, like more idling or harder use. We'd probably change this fill soon to remove the extra metal even though the TBN was still strong at 5.1. Check back in 3,000 miles on a fresh fill to monitor. "Sample J2"

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	2,883	UNIT / LOCATION AVERAGES	4,632				UNIVERSAL AVERAGES
	MI/HR on Unit	24,034		21,139				
	Sample Date	8/9/2015		7/28/2015				
	Make Up Oil Added	0 qts		0 qts				
ALUMINUM	8	4	3				4	
CHROMIUM	1	0	0				1	
IRON	19	10	10				13	
COPPER	9	10	17				15	
LEAD	0	0	0				2	
TIN	0	1	2				1	
MOLYBDENUM	19	58	56				131	
NICKEL	1	0	0				1	
MANGANESE	5	4	7				3	
SILVER	0	0	0				0	
TITANIUM	0	0	0				0	
POTASSIUM	4	2	1				3	
BORON	4	84	4				134	
SILICON	16	14	9				12	
SODIUM	9	5	5				21	
CALCIUM	3440	2997	3902				2503	
MAGNESIUM	18	198	24				312	
PHOSPHORUS	1114	1084	1128				1172	
ZINC	1479	1441	1566				1493	
BARIUM	2	1	2				1	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	100.3	81-102	120.3			
	cSt Viscosity @ 100°C	20.42	15.8-21.1	25.04			
	Flashpoint in °F	450	>385	425			
	Fuel %	<0.5	<2.0	<0.5			
	Antifreeze %	-	0.0	-			
	Water %	0.0	0.0	0.0			
	Insolubles %	0.1	<0.6	TR			
	TBN	5.1	>1.0	6.3			
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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