

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

UNIT ID: CLIENT ID: PAYMENT:

EQUIP. MAKE/MODEL: Harley Davidson Twin Cam 103 OIL TYPE & GRADE: Amsoil MCV 20W/50 FUEL TYPE: Gasoline (Unleaded) OIL USE INTERVAL: 4,632 Miles ADDITIONAL INFO:

PHONE:

ALT PHONE: EMAIL:

FAX:

OIL

REPORT

CLIENT

COMMENTS

Sample "J1" from this engine looks good. Wear metals match up well next to universal averages, giving us no reason to suspect any poorly wearing parts in the engine. The viscosity was very thick for 20W/50, but we're not sure what caused that. Like we've mentioned, excess heat can do that, but that makes the oil oxidize rapidly also giving you high insolubles. They were at just a trace, less than we are able to quantify. The TBN of 6.3 is good and strong. Aside from the viscosity, this is an excellent first report for this engine.

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

Values Should Be*

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

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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