BLACKSTONE LABORATORIES

OIL REPORT

LAB NUMBER:
REPORT DATE: 9/30/2018
CODE: 20/34

UNIT ID: 76 R90S
CLIENT ID:
PAYMENT: CC: MC (Bulk)

UNIT

MAKE/MODEL: BMW Motorcycle R-90/6
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO:

OIL TYPE & GRADE: 20W/50
OIL USE INTERVAL: 475 Miles

CLIENT

COMMENTS

Well, we wouldn't necessarily call this first sample a doozy, but there is a lot of metal here. A lot of this can be explained by wear-in. New parts breaking in always generate a fair amount of metal, as you probably know. What's making us a little nervous is all that lead -- we don't typically see a lot of bearing wear as a result of wear-in, so that's something we'll be keeping an eye on. Silicon is from sealer and sand-casted parts. This engine is new enough to give it the benefit of the doubt. Do 475 hours again next time to check for improvements.

ELEMENTS IN PARTS PER MILLION

		UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
MI/HR on Oil	475							
MI/HR on Unit	475							
Sample Date	9/23/2018							
Make Up Oil Added	0 qts							
ALUMINUM	**11**	11						4
CHROMIUM	**5**	5						1
IRON	**80**	80						18
COPPER	**16**	16						8
LEAD	**49**	49						14
TIN	3	3						2
MOLYBDENUM	3	3						6
NICKEL	1	1						2
MANGANESE	1	1						1
SILVER	0	0						0
TITANIUM	0	0						0
POTASSIUM	2	2						0
BORON	3	3						90
SILICON	**57**	57						8
SODIUM	32	32						5
CALCIUM	2615	2615						1336
MAGNESIUM	17	17						1163
PHOSPHORUS	769	769						977
ZINC	901	901						1136
BARIUM	1	1						0

PROPERTIES

		Values Should Be*					
SUS Viscosity @ 210°	78.2	75-94					
cSt Viscosity @ 100°C	15.06	14.3-19.2					
Flashpoint in °F	415	>385					
Fuel %	<0.5	<2.0					
Antifreeze %	-	0.0					
Water %	0.0	<0.1					
Insolubles %	0.2	<0.6					
TBN							
TAN							
ISO Code							

*** THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE**

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