



OIL REPORT

LAB NUMBER:
REPORT DATE: 11/6/2015
CODE: 20/685

UNIT ID:
CLIENT ID:
PAYMENT:

UNIT

EQUIP. MAKE/MODEL: BMW 3.0L (N55) I-6 Turbo
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO:

OIL TYPE & GRADE: Motul X-cess 5W/40
OIL USE INTERVAL: 4,000 Miles

CLIENT

PHONE:
FAX:
ALT PHONE:
EMAIL:

COMMENTS

E85 (or blends of regular fuel and E85) don't typically yield different results on our end, so that's probably not impacting these results much, if any. Universal averages for this type of BMW engine show typical wear after about 6,000 miles of oil use. Your wear metals look excellent after 4,000 miles on this oil, so we don't see any obvious issues in these numbers. Air and oil filtration are in good shape too, as seen by silicon and insolubles. The TBN was nice and strong at 5.1, so there was lots of active additive left. 1.0 or less is low, so try 6,000 miles. Nice report!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	4,000	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	43,989							
	Sample Date	10/26/2015							
	Make Up Oil Added	0 qts							
	ALUMINUM	5	5						12
	CHROMIUM	1	1						1
	IRON	41	41						50
	COPPER	2	2						8
	LEAD	0	0						1
	TIN	3	3						1
	MOLYBDENUM	33	33						117
	NICKEL	3	3						1
	MANGANESE	1	1						5
	SILVER	1	1						0
	TITANIUM	1	1						1
	POTASSIUM	2	2						4
	BORON	41	41						61
	SILICON	10	10						6
	SODIUM	4	4						7
	CALCIUM	2490	2490						2341
	MAGNESIUM	20	20						65
	PHOSPHORUS	840	840						863
	ZINC	1043	1043						1034
	BARIIUM	0	0						0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	70.1	65-78					
	cSt Viscosity @ 100°C	12.97	11.6-15.3					
	Flashpoint in °F	410	>375					
	Fuel %	<0.5	<2.0					
	Antifreeze %	0.0	0.0					
	Water %	0.0	<0.1					
	Insolubles %	0.1	<0.6					
	TBN	5.1	>1.0					
	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