



# OIL REPORT

LAB NUMBER: H62701

UNIT ID: 10 X5

REPORT DATE: 7/11/2016

CLIENT ID: 47830

CODE: 20/685

PAYMENT: CC: Visa

UNIT

MAKE/MODEL: BMW 3.0L (M57) Twin Turbo I-6  
FUEL TYPE: Diesel  
ADDITIONAL INFO:

OIL TYPE & GRADE: Shell Rotella T6 5W/40  
OIL USE INTERVAL: 11,849 Miles

CLIENT

COMMENTS

RYAN: Wear metals look really nice in this first sample from your X5. Universal averages show typical wear levels after about 7,400 miles on the oil. This oil run was quite a bit longer than average, but you'd never know it from looking at these wear numbers. Iron was actually lower than average, and we'd expect it to read higher on a longer run -- so your engine's steel parts are doing very well. The trace of fuel is no problem. The potassium, boron, and sodium you're seeing are from the Archoil. The TBN read 4.7, which is fine. Try 13,000 miles next time. Nice!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	11,849	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	161,710							
	Sample Date	6/25/2016							
	Make Up Oil Added	0 qts							
	ALUMINUM	6							7
	CHROMIUM	3							2
	IRON	47							51
	COPPER	4							7
	LEAD	0							1
	TIN	1							1
	MOLYBDENUM	55							22
	NICKEL	1							1
	MANGANESE	1							3
	SILVER	0							0
	TITANIUM	0							1
	POTASSIUM	1552							7
	BORON	514							27
	SILICON	4							4
	SODIUM	18							4
	CALCIUM	689							1793
	MAGNESIUM	965							39
	PHOSPHORUS	748							711
	ZINC	980							816
	BARIUM	0							0

Values  
Should Be\*

PROPERTIES	SUS Viscosity @ 210°F	72.5	66-78					
	cSt Viscosity @ 100°C	13.61	11.9-15.3					
	Flashpoint in °F	410	>410					
	Fuel %	TR	<2.0					
	Antifreeze %	0.0	0.0					
	Water %	0.0	0.0					
	Insolubles %	0.4	<0.6					
	TBN	4.7	>1.0					
	TAN							
	ISO Code							

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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