Report of The Month

This new 2.0L 4-cylinder Kia engine didn't get an oil change for the first 30,000 miles.

What do you think? To learn more about where the elements are from, click here.

	MI/HR on Oil	30,000	
	MI/HR on Unit	30,000	UNIVERSAL
	Sample Date	6/4/2018	AVERAGES
	Make Up Oil Added	0 qts	
N	ALUMINUM	110	4
\equiv	CHROMIUM	3	0
MILLION	IRON	299	13
40.00	COPPER	140	2
PER	LEAD	0	1
	TIN	15	1
PARTS	MOLYBDENUM	84	62
R	NICKEL	6	0
A	MANGANESE	8	0
Z	SILVER	0	0
	TITANIUM	8	2
Ĕ	POTASSIUM	9	2
ELEMENTS	BORON	4	39
≧	SILICON	60	12
Ë	SODIUM	304	51
	CALCIUM	1458	1847
	MAGNESIUM	39	143
	PHOSPHORUS	636	666
	ZINC	717	761
	BARIUM	1	0

	SUS Viscosity @ 210°F	56.6
	cSt Viscosity @ 100°C	9.23
S	Flashpoint in °F	350
	Fuel %	0.8
R	Antifreeze %	0.0
Н	Water %	0.0
PROP	Insolubles %	0.5
P	TBN	
	TAN	
	ISO Code	

You know, all in all it's not a terrible report. An earlier oil change would have been good, of course, but mostly what you're looking at is the normal factory wear-in plus 30,000 miles of metal accumulation. There's probably also additional wear from the oil itself being abrasive, from to collecting so much metal. We suggested a few short oil changes to flush the system. The oil held up well over the long interval, though – the viscosity was still in the 5W/30 range and insolubles (oxidized solids caused by heat, use, and blow-by) read within limits.