



# OIL REPORT

LAB NUMBER:  
 REPORT DATE: 12/22/2014  
 CODE: 1/75

UNIT ID: BLUE JAY  
 CLIENT ID:  
 PAYMENT: No Charge

<b>UNIT</b>	MAKE/MODEL: Hyundai 1.8L 4-cyl	OIL TYPE & GRADE: Meijer 5W/20
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 4,440 Miles
	ADDITIONAL INFO: 2013 Elantra	

<b>CLIENT</b>	:
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**COMMENTS** Your Elantra's engine is wearing well at 34,295 total miles. The only mark was the low flashpoint, which shows 0.5% fuel in this sample - a harmless amount. The viscosity is correct for 10W/30 oil. Have a Merry Christmas and a Happy New Year! -- Samir

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	4,440	UNIT / LOCATION AVERAGES	7,064	7,473	4,715	5,428	5,175	UNIVERSAL AVERAGES
	MI/HR on Unit	34,295		29,855	22,791	15,318	10,603	5,175	
	Sample Date	12/21/2014		7/22/2014	3/23/2014	9/3/2013	3/2/2013	9/10/2012	
	Make Up Oil Added	0 qts		0 qts			0 qts	0 qts	
ALUMINUM	4	5	5	12	10	16	4	6	
CHROMIUM	0	0	0	0	0	1	0	0	
IRON	7	10	9	17	10	19	34	10	
COPPER	2	5	3	5	9	18	46	2	
LEAD	0	0	0	1	0	1	1	0	
TIN	0	1	1	0	0	1	0	1	
MOLYBDENUM	38	78	40	37	50	167	811	77	
NICKEL	1	0	0	0	0	0	0	0	
MANGANESE	2	2	8	3	7	6	11	1	
SILVER	0	0	0	0	0	0	0	0	
TITANIUM	0	0	0	0	0	0	0	3	
POTASSIUM	1	3	2	3	4	5	14	2	
BORON	0	5	2	2	12	8	12	40	
SILICON	16	19	14	18	19	30	88	18	
SODIUM	5	65	7	26	153	9	11	35	
CALCIUM	2250	1804	2463	1990	2247	2260	1817	1736	
MAGNESIUM	10	153	10	15	10	15	10	292	
PHOSPHORUS	671	658	676	560	748	615	561	673	
ZINC	737	729	805	600	763	710	697	765	
BARIIUM	0	0	0	0	1	1	6	0	

Values Should Be\*

PROPERTIES	49.3	46-57	51.0	48.6	51.2	48.6	51.7
SUS Viscosity @ 210°	49.3	46-57	51.0	48.6	51.2	48.6	51.7
cSt Viscosity @ 100°C	7.05	6.0-9.7	7.56	6.85	7.65	6.84	7.80
Flashpoint in °F	345	>385	380	335	405	355	425
Fuel %	0.5	<2.0	<0.5	1.0	<0.5	TR	<0.5
Antifreeze %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water %	0.0	<0.1	0.0	0.0	0.0	0.0	0.0
Insolubles %	0.2	<0.6	0.4	0.2	0.2	0.2	0.2
TBN							
TAN							
ISO Code							

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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