



# OIL REPORT

LAB NUMBER: K95166  
 REPORT DATE: 2/20/2019  
 CODE: 20/32

UNIT ID: 15 WRANGLER  
 CLIENT ID:  
 PAYMENT: CC: Visa

<b>UNIT</b>	MAKE/MODEL: Jeep 3.6L V-6 Pentastar	OIL TYPE & GRADE: 5W/20
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 5,000 KM
	ADDITIONAL INFO:	

<b>CLIENT</b>	
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**COMMENTS** Sorry to hear about the deer (and your Jeep). We don't test for blood, but we didn't find any water. Wear metals are quite high. Aluminum and iron can show piston/bearing wear, though with chrome also reading high, the wear could be coming from the cylinder area too. Nickel is an alloy in steel parts. Silicon is very high - maybe it's from sealers, but it could also be abrasive dirt and that might account for some of the wear (check for air intake leaks). Fuel read at 1.0%. Change the oil and run a couple very short intervals to flush -- let's see if that helps.

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil	5,000	<b>UNIT / LOCATION AVERAGES</b>					<b>UNIVERSAL AVERAGES</b>
	MI/HR on Unit	25,000						
	Sample Date	1/27/2019						
	Make Up Oil Added							
ALUMINUM	295	295						4
CHROMIUM	16	16						1
IRON	408	408						18
COPPER	35	35						24
LEAD	0	0						0
TIN	2	2						0
MOLYBDENUM	143	143						98
NICKEL	16	16						0
MANGANESE	8	8						1
SILVER	1	1						0
TITANIUM	3	3						3
POTASSIUM	1	1						3
BORON	67	67						49
SILICON	128	128						12
SODIUM	13	13						37
CALCIUM	1494	1494						1890
MAGNESIUM	378	378						249
PHOSPHORUS	724	724						693
ZINC	828	828						789
BARIUM	17	17						0

Values Should Be\*

<b>PROPERTIES</b>							
	SUS Viscosity @ 210°	49.7	46-59				
cSt Viscosity @ 100°C	7.18	6.0-10.2					
Flashpoint in °F	355	>375					
Fuel %	1.0	<2.0					
Antifreeze %	0.0	0.0					
Water %	0.0	<0.1					
Insolubles %	0.4	<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