



# OIL REPORT

LAB NUMBER:  
 REPORT DATE: 4/12/2019  
 CODE: 63/685

UNIT ID: 06 RAM 2500 S  
 CLIENT ID:  
 PAYMENT: Prepaid

<b>UNIT</b>	MAKE/MODEL: Cummins ISB 5.9L (Pickup)	OIL TYPE & GRADE: Schaeffer 9000 5W/40 Syn
	FUEL TYPE: Diesel	OIL USE INTERVAL: 5,600 Miles
	ADDITIONAL INFO: Dodge	

<b>CLIENT</b>	
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**COMMENTS** Wear metals have improved vastly from the last run. That may be from the shorter run, but we'll take less metal any way we can get it. We mentioned the possibility of poor combustion last time, and this time the sample was too sooty to even get an insolubles reading. There's no fuel here present, but there could still be an issue with an injector not properly injecting fuel into a cylinder. In any case, this much soot is cautionary. The TBN is still in good shape at 5.5, but due to the excess soot, check back in just 5,000 miles again to monitor.

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil	5,600	UNIT / LOCATION AVERAGES	7,200					<b>UNIVERSAL AVERAGES</b>
	MI/HR on Unit			222,518					
	Sample Date	4/5/2019		12/3/2018					
	Make Up Oil Added			0 qts					
ALUMINUM	4	5	6					3	
CHROMIUM	1	3	4					1	
IRON	37	50	63					24	
COPPER	1	2	3					4	
LEAD	1	2	3					2	
TIN	1	1	0					1	
MOLYBDENUM	40	38	35					36	
NICKEL	0	1	1					0	
MANGANESE	0	1	1					0	
SILVER	0	0	0					1	
TITANIUM	0	0	0					2	
POTASSIUM	2	2	2					6	
BORON	62	46	30					85	
SILICON	4	4	4					5	
SODIUM	12	12	12					5	
CALCIUM	2707	2520	2332					2074	
MAGNESIUM	26	26	26					447	
PHOSPHORUS	1261	1166	1071					1097	
ZINC	1437	1371	1305					1276	
BARIUM	0	0	0					0	

Values Should Be\*

<b>PROPERTIES</b>								
SUS Viscosity @ 210°	71.6	65-76	<b>92.9</b>					
cSt Viscosity @ 100°C	13.37	11.6-14.8	<b>18.68</b>					
Flashpoint in °F	425	>405	445					
Fuel %	<0.5	<2.0	<0.5					
Antifreeze %	0.0	0.0	0.0					
Water %	0.0	<0.1	0.0					
Insolubles %	<b>SOOT</b>	<0.8	0.4					
TBN	5.5	>1.0						
TAN								
ISO Code								

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380