BLACKSTONE LABORATORIES

OIL REPORT

LAB NUMBER: K80333	**UNIT ID:** PEARL	
REPORT DATE: 12/21/2018	**CLIENT ID:** 59679	
CODE: 20/75	**PAYMENT:** CC: MC (Bulk)	

UNIT

EQUIP. MAKE/MODEL: Cummins ISB 6.7L (Pickup)	**OIL TYPE & GRADE:** Diesel Engine Oil
FUEL TYPE: Diesel	**OIL USE INTERVAL:** 5,368 Miles
ADDITIONAL INFO: 2017 Dodge Ram 3500	

CLIENT

DARIN DIVINIA
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COMMENTS

DARIN: No big surprises with the first oil change for Pearl. Iron and copper are high, but they're just harmless break-in material from new parts getting to know one another. Silicon is from break-in too -- sealers and lubes used to button the engine up. After a few more oil changes, this stuff will wash out, and this ISB should look more like averages, which are based on oil run about 7,600 miles. If you want to shoot for that interval next, you certainly could (you'll still see improvements), but this interval works well too. Just check back -- should be a terrific engine!

		UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
MI/HR on Oil	5,368						
MI/HR on Unit	5,368						
Sample Date	12/19/2018						
Make Up Oil Added							

ELEMENTS IN PARTS PER MILLION

		UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
ALUMINUM	3	5					4
CHROMIUM	2	1					1
IRON	**54**	25					24
COPPER	**42**	2					6
LEAD	0	0					1
TIN	1	1					1
MOLYBDENUM	42	19					34
NICKEL	1	0					0
MANGANESE	6	0					0
SILVER	1	0					0
TITANIUM	0	0					2
POTASSIUM	11	16					9
BORON	43	50					62
SILICON	**44**	4					5
SODIUM	20	5					6
CALCIUM	808	2178					1681
MAGNESIUM	1082	15					555
PHOSPHORUS	1048	950					1035
ZINC	1156	1112					1216
BARIUM	20	0					0

PROPERTIES

		Values Should Be*				
SUS Viscosity @ 210°F	69.1					
cSt Viscosity @ 100°C	12.71					
Flashpoint in °F	460	>415				
Fuel %	<0.5	<2.0				
Antifreeze %	0.0	0.0				
Water %	0.0	0.0				
Insolubles %	0.2	<0.6				
TBN						
TAN						
ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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