BLACKSTONE	
LABORATORIES	

OIL REPORT
 LAB NUMBER:
 J55194

 REPORT DATE:
 8/22/2017

 CODE:
 63/32

UNIT ID: #10 PROSTAR CLIENT ID: 98931 PAYMENT: CC: Visa

UNIT

MAKE/MODEL: Cummins ISX 15 FUEL TYPE: Diesel ADDITIONAL INFO: 2010 OIL TYPE & GRADE: OIL USE INTERVAL: Shell Rotella T 15W/40 19,000 Miles

PHONE: FAX: ALT PHONE: EMAIL: EMAIL:

COMMENTS

CLIFNT

ARMANDO: There's some extra aluminum this time around, but just enough to earn a mark when compared to universal averages. We start marking metals when they're twice the universal average value, so the shoe barely fits. Still, it's more aluminum than we were seeing in the past from this engine after using a similar interval, so it could show excess piston wear. The viscosity was a little low this time, but that shouldn't hurt anything. It wasn't thinned by fuel or any other contaminant, so it's just something to note. Try 19,000 miles again if all is well on your end.

	MI/HR on Oil	19,000	UNIT / LOCATION AVERAGES	18,004	17,852		
	MI/HR on Unit	857,970		777,381	759,377		UNIVERSAL
	Sample Date	8/8/2017		10/17/2016	8/12/2016		AVERAGES
	Make Up Oil Added	1 gal		1 Gallon	1 gallon		
NC	ALUMINUM	6	3	1	1		3
Ľ	CHROMIUM	1	0	0	0		1
	IRON	19	15	13	14		15
2	COPPER	3	2	1	1		1
Ш	LEAD	0	3	4	4		4
٩	TIN	1	0	0	0		1
TS	MOLYBDENUM	42	44	46	43		39
Ľ Ľ	NICKEL	0	0	0	0		0
Ч	MANGANESE	1	0	0	0		0
Z	SILVER	0	0	0	0		0
	TITANIUM	0	1	2	1		2
Ĕ	POTASSIUM	0	1	2	1		7
Ш	BORON	52	32	25	20		78
ΜΞ	SILICON	5	4	3	3		6
Η	SODIUM	8	15	15	21		7
	CALCIUM	1749	1439	1412	1157		1797
	MAGNESIUM	338	592	723	715		486
	PHOSPHORUS	828	820	840	792		1033
	ZINC	1001	1037	1121	989		1237
	BARIUM	0	0	0	0		0
			Values				

values						
Should	Be*					

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SUS Viscosity @ 210°F	64.7	69-80	72.5	73.4			
cSt Viscosity @ 100°C	11.52	12.7-15.8	13.60	13.85			
Flashpoint in °F	445	>410	435	415			
Fuel %	<0.5	<2.0	<0.5	<0.5			
Antifreeze %	0.0	0	0.0	?			
Water %	0.0	0.0	0.0	0.0			
Insolubles %	0.2	<0.6	0.1	0.4			
TBN							
TAN							
ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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