OIL REPORT

LAB NUMBER: R94311 **UNIT ID:** 034646
REPORT DATE: 12/11/2023 **CLIENT ID:** 56232
CODE: 20/88 **PAYMENT:** CC: Visa

UNIT

MAKE/MODEL: Cummins ISC
FUEL TYPE: Diesel
ADDITIONAL INFO: 2000 Spartan MM2242

OIL TYPE & GRADE: 15W/40
OIL USE INTERVAL: Miles

CLIENT

STEVEN PAUL
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COMMENTS

STEVEN: This sample from the engine looks good. Metals are low next to universal averages, and those averages show typical wear for a Cummins ISC engine after about 6,700 miles of oil use. We aren't sure how long this oil was in place, but based on the data, we'd guess it was a much shorter run. No matter, no mechanical problems or poor wear is evident in this data. The viscosity is correct and there isn't any fuel, water, or coolant contamination. A trace of insolubles shows good oil filtration.

ELEMENTS IN PARTS PER MILLION

		UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
MI/HR on Oil								
MI/HR on Unit	50,000							
Sample Date	12/8/2023							
Make Up Oil Added								
ALUMINUM	1	1						3
CHROMIUM	0	0						1
IRON	3	3						20
COPPER	0	0						7
LEAD	0	0						2
TIN	0	0						1
MOLYBDENUM	48	48						43
NICKEL	0	0						0
MANGANESE	0	0						0
SILVER	0	0						0
TITANIUM	0	0						1
POTASSIUM	0	0						9
BORON	42	42						116
SILICON	5	5						7
SODIUM	3	3						6
CALCIUM	1469	1469						1753
MAGNESIUM	600	600						485
PHOSPHORUS	1059	1059						1046
ZINC	1180	1180						1208
BARIUM	0	0						0

PROPERTIES

		Values Should Be*					
SUS Viscosity @ 210°F	73.2	68-82					
cSt Viscosity @ 100°C	13.79	12.4-16.3					
Flashpoint in °F	445	>400					
Fuel %	<0.5	<2.0					
Antifreeze %	0.0	0.0					
Water %	0.0	0.0					
Insolubles %	TR	<0.6					
TBN							
TAN							
ISO Code							

*** THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE**

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