



OIL REPORT

LAB NUMBER: J90914
 REPORT DATE: 1/15/2018
 CODE: 1/685

UNIT ID: 4020
 CLIENT ID: [REDACTED]
 PAYMENT: Verbal, R.

UNIT	MAKE/MODEL: Ford 3.7L V-6 Duratec	OIL TYPE & GRADE: Conoco 5W/20
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 2,408 Miles
	ADDITIONAL INFO: [REDACTED]	

CLIENT	R. CUMMINS	PHONE: (415) 891-8726
	HUBB FILTERS, INC - CALIFORNIA	FAX:
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	CORTE MADERA, CA 94925	

COMMENTS HUBB FILTERS: Universal averages for the Ford 3.7L Duramax are based on about 6,500 miles on the oil. Wear metals in this sample are low by comparison, but that's to be expected on a short run like this. (Actually, the oil use interval was noted at 36,037 miles, but we're guessing that's when the oil was installed, not the actual mileage on the oil.) The viscosity was fine and no contamination from fuel dilution, water, or coolant was found. Insolubles read low, showing good combustion and oil filtration. The TBN (a measure of active additive) was fine at 4.8. Nice report.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	2,408	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	38,445						
	Sample Date	1/8/2018						
	Make Up Oil Added	0 qts						
ALUMINUM	2	2					5	
CHROMIUM	0	0					0	
IRON	4	4					13	
COPPER	8	8					33	
LEAD	0	0					1	
TIN	0	0					1	
MOLYBDENUM	38	38					73	
NICKEL	0	0					0	
MANGANESE	1	1					10	
SILVER	0	0					0	
TITANIUM	0	0					1	
POTASSIUM	2	2					3	
BORON	18	18					44	
SILICON	11	11					18	
SODIUM	2	2					57	
CALCIUM	2277	2277					1953	
MAGNESIUM	11	11					179	
PHOSPHORUS	711	711					693	
ZINC	831	831					811	
BARIUM	0	0					1	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	52.9	46-59				
	cSt Viscosity @ 100°C	8.16	6.0-10.2				
	Flashpoint in °F	425	>385				
	Fuel %	<0.5	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	<0.1				
	Insolubles %	0.1	<0.6				
	TBN	4.8	>1.0				
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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