OIL REPORT

LAB NUMBER: F57311 **UNIT ID:** 99 COBRA
REPORT DATE: 6/4/2013 **CLIENT ID:** 58301
CODE: 20/501 **PAYMENT:** Prepaid

UNIT

MAKE/MODEL: Ford 4.6L V-8 32V DOHC
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO:
OIL TYPE & GRADE: Castrol Edge Syntec 5W/30
OIL USE INTERVAL: 6,000 Miles

CLIENT

JOE MORGAN
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COMMENTS

JOE: Things look much better after this last 6,000 miles. Aluminum came back to 6 ppm, which is just inside the average range. What we saw last time might have been a little piston scuffing or it could've been a particle streak through the bearings. It's hard to say for sure since both the pistons and bearings are aluminum. In any case, it's looking better here, and so is silicon since it dropped by 50% since the last sample. The TBN read 2.9, so there's enough active additive to run longer on this oil. Try adding about 2,000 miles to this run and check back to monitor. Nice!

ELEMENTS IN PARTS PER MILLION

MI/HR on Oil	6,000	UNIT / LOCATION AVERAGES	8,000	6,000				UNIVERSAL AVERAGES
MI/HR on Unit	134,331		128,225	126,000				
Sample Date	05/30/13		11/25/12	09/18/12				
Make Up Oil Added	1 qt		1 qts	0.5 qts				
	Castrol		Amsoil	Amsoil				
ALUMINUM	6	7	**8**	6				3
CHROMIUM	1	2	2	2				1
IRON	23	32	44	30				16
COPPER	3	4	5	4				15
LEAD	0	0	0	0				2
TIN	0	0	0	1				1
MOLYBDENUM	80	125	153	142				58
NICKEL	2	2	2	2				0
MANGANESE	42	15	1	1				3
SILVER	0	0	0	0				0
TITANIUM	0	0	0	0				0
POTASSIUM	6	3	2	0				2
BORON	34	67	81	87				59
SILICON	15	41	**30**	**78**				17
SODIUM	6	8	10	8				25
CALCIUM	1035	2760	3726	3518				2480
MAGNESIUM	1428	532	78	91				196
PHOSPHORUS	688	709	724	715				706
ZINC	823	840	859	838				839
BARIUM	0	0	0	0				1

PROPERTIES

		Values Should Be*					
SUS Viscosity @ 210°F	62.4	56-63	60.6	61.2			
cSt Viscosity @ 100°C	10.89	9.1-11.3	10.40	10.56			
Flashpoint in °F	440	>365	445	450			
Fuel %	<0.5	<2.0	<0.5	<0.5			
Antifreeze %	0.0	0.0	0.0	0.0			
Water %	0.0	<0.1	0.0	0.0			
Insolubles %	0.3	<0.6	0.2	0.3			
TBN	2.9	>1.0	3.1				
TAN							
ISO Code							

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

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