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Customer: Auto-RX tests#1/ #2
Report Date: 6/12/06-11/2/2006
Lab Number: 6060970/06110004
Unit Type: unit # 0050 02 Ford Explorer Sport
Engine/Trans Type: 4.0 V6 SOHC
Oil Brand/Weight: M1 TSUV 5w 30 /3oz maintdose
Mileage on Unit: 72306/79821
Mileage on Oil: 1434/6101

Unit Notes:
Motorcraft oil filters, air filter changed at 67369.Plugs and PCV changed after test #1 due to worn condition. Confirm air filter NOT changed after test #1?

ELEMENTALS IN PPM	Iron	6	9 exceptionally low cylinder and bearing wear, RX effect in spite of fuel
	Copper	9	21 elevated bushing wear from fuel dilute, lower wear rate as fuel is corrected a bit
	Tin	0	0 No bearing / piston wear
	Lead	0	0 NO bearing wear, amazingly low
	Chromium	0	1 low to normal ring wear , excellent
	Nickel	0	1 low to normal valve guide or wrist pin wear
	Aluminum	3	9 piston wear elevated by fuel dilute
	Titanium	0	0 Normal
	Silver	0	0 Normal
	Calcium	1937	1937 Normal oil add, add depletion is limited after RX cleaning when duration 4.25 x the interval.
	Magnesium	23	18 Normal oil add, very little depletion
	Zinc	888	868 Normal oil add, very little depletion
	Phosphorus	640	566 Normal oil add, normal depletion
	Barium	0	1 normal oil add trace, very little
	Molybdenum	98	57 Normal oil additive , note depletion after duration 4.25X longer
	Antimony	0	0 Normal … none
	Silicon	11	11 normal dirt ingress for duration, confirm air filter duration of use?
	Sodium	21	11 much lower dirt ingress but fuel dilute still present
	Boron	74	8 depleted oil add
	Potassium	0	0None, normal clean, no coolant
	Vanadium	0	0 Normal
LUBE CONDITION	Viscosity 40C/100C		(40C) 58.7 / 57.3 normal shear, (100C) 11.0 normal / 10.0 normal SAE30, sheared from fuel
	TAN	1.05	2.0 still normal… in spite of fuel dilute and RX effect of raising this a bit
	Flashpoint	325	365 still fuel diluted but much more stable 4.25X longer drain, RX helping here
	Oxidation	21.7	28 elevated as RX is cleaning <20 target, elevated from cleaning and or fuel dilute effect
	Nitration	10.1	10 Low , perfect in spite of fuel dilute
	Water (KF - ppm)	336	364 Low , perfect water level low
	TBN	5.97	4.9 depleted by fuel but very stable, acid fighting reserve adequate
	Fuel	244	234 much improved after plugs/pcv change dropped from 1.25% to 0.75%, still too high see cu,al
	Soot	0	0 Clean solids reading
	Glycol/Coolant	0.0	0.0 None, normal
	Vndx	182	162 depleted from fuel dilute shear
	Sulfate Byproduct	23	27 normal to slightly elevated range for interval from fuel dilution

Conclusions:

Auto-RX guys and Don, Improved report showing a still fuel diluting Ford 4.0 V6 running LOW wear values except for copper . Auto-RX protecting cylinder and bearing wear rates, Ring seal is exceptional even with the fuel. RX effect. This is a PAO based motor oil so it is tough and will resist fuel but any oil will shear with 1.25%- 0.75% fuel levels. Air filter suspect . Wires, cap rotor, suspect still. Hows MPG now? Very good result. Result of M1TSUV with auto-rx maintenance dose is effective at protecting and keeping clean engine internals. Look forward to your input and response.

AT YOUR SERVICE … TERRY

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