



OIL REPORT

LAB NUMBER:
 REPORT DATE: 7/6/2018
 CODE: 20/32

UNIT ID: BIG 4RD
 CLIENT ID:
 PAYMENT: Prepaid

UNIT	MAKE/MODEL: Ford 7.5L 460 CI V-8	OIL TYPE & GRADE: Gasoline Engine Oil
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 450 Miles
	ADDITIONAL INFO: 1979 Thunderbird	

CLIENT	
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COMMENTS This engine likely has an internal problem. Wear metals are extremely high, and this is a lot more metal than we expect from typical break-in. Copper is the worst off, and may show rod/main bearing wear along with lead and tin. Cam bearings would also be a source of those three metals. Iron shows severe wear from steel parts. There's also a lot of chrome (ring wear), and aluminum (piston wear). Silicon could be abrasive dirt, or just sealer material left from assembly. If you find the problem we'd be interested to hear about it. Caution!

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	450	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	450						
	Sample Date	7/1/2018						
	Make Up Oil Added	0 qts						
ALUMINUM	18							5
CHROMIUM	45							2
IRON	732							30
COPPER	1273							15
LEAD	660							10
TIN	70							1
MOLYBDENUM	13							61
NICKEL	27							1
MANGANESE	10							3
SILVER	1							0
TITANIUM	1							2
POTASSIUM	9							2
BORON	4							57
SILICON	40							10
SODIUM	114							40
CALCIUM	1361							1933
MAGNESIUM	750							208
PHOSPHORUS	1199							771
ZINC	1181							934
BARIUM	1							2

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°	60.0					
	cSt Viscosity @ 100°C	10.23					
Flashpoint in °F	430	>375					
Fuel %	<0.5	<2.0					
Antifreeze %	0.0	0.0					
Water %	0.0	0.0					
Insolubles %	0.5	<0.6					
TBN							
TAN							
ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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