



# OIL REPORT

LAB NUMBER: G01368  
 REPORT DATE: 3/18/2014  
 CODE: 63/75

UNIT ID: GM MH  
 CLIENT ID: 71190  
 PAYMENT: CC: MC

<b>UNIT</b>	MAKE/MODEL: Oldsmobile 455 CID V-8	OIL TYPE & GRADE: Gasoline Engine Oil
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: Miles
	ADDITIONAL INFO: 1976 Eleganza	

<b>CLIENT</b>	LENZE MIDDELBERG	PHONE: (452) 245-9120
	SKAREGAARDSVEJ 9	FAX:
	SVENDBORG, 5700	ALT PHONE:
	DENMARK	EMAIL: lenze@middelberg.dk

**COMMENTS** LENZE: This might not surprise you, but this engine has a problem. You mentioned low oil pressure and the problem likely centers around the bearings. Lead is very high here and that's normally a bearing metal unless any leaded fuel has been used. Iron is from steel parts like cylinders and rotating shafts and aluminum is from pistons. Chrome is from rings and tin is an alloy or coating. There's coolant in the oil too. Potassium, silicon and sodium show it and the coolant isn't helping the bearings any. Fuel is present at 2.3% and insolubles are high at 0.6%. Caution!

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil		<b>UNIT / LOCATION AVERAGES</b>					<b>UNIVERSAL AVERAGES</b>	
	MI/HR on Unit								
	Sample Date	03/01/14							
	Make Up Oil Added								
ALUMINUM	40							7	
CHROMIUM	4							2	
IRON	493							42	
COPPER	23							22	
LEAD	211							46	
TIN	26							2	
MOLYBDENUM	33							58	
NICKEL	2							1	
MANGANESE	7							2	
SILVER	0							0	
TITANIUM	1							0	
POTASSIUM	28							6	
BORON	41							43	
SILICON	95							13	
SODIUM	554							66	
CALCIUM	2662							2450	
MAGNESIUM	239							222	
PHOSPHORUS	904							1158	
ZINC	1135							1388	
BARIIUM	7							2	

Values Should Be\*

<b>PROPERTIES</b>	SUS Viscosity @ 210°F	53.2					
	cSt Viscosity @ 100°C	8.25					
	Flashpoint in °F	320	>365				
	Fuel %	2.3	<2.0				
	Antifreeze %	POS	0.0				
	Water %	0.0	<0.1				
	Insolubles %	0.6	<0.6				
	TBN						
	TAN						
	ISO Code						

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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