

OIL REPORT



MAKE/MODEL: Differential Porsche

FUEL TYPE:

ADDITIONAL INFO: 2011 Cayenne Turbo

75W/90 Gear Lube OIL TYPE & GRADE:

OIL USE INTERVAL:

Miles

JOOST: Based on the high metals and silicon we found in both differentials, we suspect this is probably the very first oil change for these units. With that in mind, the excess metal is probably wear-in combined with accumulation over a long oil run (averages are based on ~23,500 miles on the oil), with silicon coming from harmless sealers/lubes. Assuming all is well operationally, we'll just look for improvements in the highlighted elements going forward. The viscosity is reading thinner than a 75W/90-grade oil. The TAN shows some acidity. Check back in about 15,000 miles.

MI/HR on Oil				
MI/HR on Unit	71,457 4/17/2023		UNIVERSAL	
Sample Date Make Up Oil Added			AVERAGES	
ALUMINUM	8	6		
ALUMINUM CHROMIUM IRON	3	2		
IRON	539	356	74	
COPPER	4	3		
LEAD	0	0		
TIN	1	1	1:	
MOLYBDENUM	356	509	13	
NICKEL	1	1		
MANGANESE	14	12		
SILVER	0	0		
TITANIUM	0	0		
POTASSIUM BORON SILICON SODIUM	0	1		
BORON	36	33	24!	
SILICON	262	176	15	
SODIUM	5	6		
CALCIUM	8	42	550	
MAGNESIUM	0	0	349	
PHOSPHORUS	2251	2531	1653	
ZINC	414	582	250	
BARIUM	1	2	4	

Values Should Be*

SUS Viscosity @ 210°F	60.6	67-80			
cSt Viscosity @ 100°C	10.39	12.2-15.8			
Flashpoint in *F	420	>370			
Flashpoint in "F Fuel % Antifreeze % Water % Insolubles % TBN	-				
Antifreeze %	-				
Water %	0.0	0.0			
Insolubles %	0.4	<0.6			
TBN					
TAN	3.4				
ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com



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₩ FL

MAKE/MODEL: Differential Porsche

FUEL TYPE:

ADDITIONAL INFO: 2011 Cayenne Turbo

OIL TYPE & GRADE: 7

75W/90 Gear Lube

OIL USE INTERVAL: Miles

LIENT

OMMENTS

JOOST: The rear differential's first sample contains excess metal and silicon just like the front, but as we mentioned in the other unit's report, this is likely wear-in (and build-up over a long oil run) and sealers that will wash out. The viscosity is thin on this side, too, and it wasn't the result of any measurable contamination, so it's not anything to be concerned about. The trace of insolubles show the oil wasn't heavily oxidized. The TAN read 3.3. We suggest a 15,000-mile run for the rear differential, too.

	MI/HR on Oil				
	MI/HR on Unit	71,457	UNIT /		UNIVERSAL
	Sample Date	4/17/2023	LOCATION		AVERAGES
	Make Up Oil Added		AVENAGES		
NO	ALUMINUM	4	6		3
LION	CHROMIUM	1	2		1
M	IRON	172	356		74
	COPPER	2	3		5
E	LEAD	0	0		1
Б	TIN	1	1		0
S	MOLYBDENUM	662	509		13
8	NICKEL	1	1		1
PA	MANGANESE	10	12		9
Z	SILVER	0	0		0
	TITANIUM	0	0		1
ITS	POTASSIUM	1	1		6
H	BORON	30	33		249
EM	SILICON	90	176		15
3	SODIUM	6	6		8
ш	CALCIUM	76	42		555
	MAGNESIUM	0	0		349
	PHOSPHORUS	2811	2531		1653
	ZINC	749	582		256
	BARIUM	2	2		4

Values Should Be*

SUS Viscosity @ 210°F	60.5	67-80			
cSt Viscosity @ 100°C	10.36	12.2-15.8			
Flashpoint in *F	415	>370			
Flashpoint in 'F Fuel % Antifreeze % Water % Insolubles %	-				
Antifreeze %	-				
Water %	0.0	0.0			
Insolubles %	TR	<0.6			
TBN					
TAN	3.3		1		
ISO Code					

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