



OIL REPORT

LAB NUMBER: P03908

UNIT ID: PENNZOIL ULT PLAT

REPORT DATE: 11/3/2021

CLIENT ID: 190942

CODE: 44/698

PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Virgin 0W/40	OIL TYPE & GRADE: Pennzoil Ultra Platinum 0W/40
	FUEL TYPE:	OIL USE INTERVAL:
	ADDITIONAL INFO:	

CLIENT	[REDACTED]
---------------	------------

COMMENTS ZACK: Your Red Line sample arrived a few days after this Pennzoil, so its results aren't in yet. We expect them to be ready on Monday. As for this PUP 0W/40, it is in serviceable condition and ready for use in its intended application. No contamination or significant wear metal was found (the 1 ppm iron is typical even for virgin oil), and the trace of insolubles is probably just additive that fell out of suspension. It's harmless. Speaking of additives, molybdenum, boron, and calcium through zinc are the major players here, and the TBN starts strong at 6.2.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil		UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit							
	Sample Date	10/19/2021						
	Make Up Oil Added							
ALUMINUM	0	0					1	
CHROMIUM	0	0					0	
IRON	1	1					1	
COPPER	0	0					0	
LEAD	0	0					0	
TIN	0	0					0	
MOLYBDENUM	203	203					102	
NICKEL	0	0					0	
MANGANESE	0	0					0	
SILVER	1	1					0	
TITANIUM	2	2					3	
POTASSIUM	2	2					10	
BORON	230	230					134	
SILICON	5	5					5	
SODIUM	4	4					5	
CALCIUM	973	973					2411	
MAGNESIUM	654	654					121	
PHOSPHORUS	578	578					997	
ZINC	661	661					1022	
BARIUM	0	0					0	

Values Should Be*

PROPERTIES							
SUS Viscosity @ 210°F	69.3	65-75					
cSt Viscosity @ 100°C	12.76	11.6-14.5					
Flashpoint in °F	435	>385					
Fuel %	-	<2.0					
Antifreeze %	-	0.0					
Water %	0.0	0.0					
Insolubles %	TR	<0.6					
TBN	6.2	>1.0					
TAN							
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