



OIL REPORT

LAB NUMBER: Q81116
 REPORT DATE: 3/6/2023
 CODE: 20/88

UNIT ID: 20 GLADIATOR-TR
 CLIENT ID: 218052
 PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Transmission ZF 8HP	OIL TYPE & GRADE: ATF
	FUEL TYPE:	OIL USE INTERVAL: Miles
	ADDITIONAL INFO: 1C6JJTAG9LL108142	

CLIENT	PHONE: (302) 379-0901
	FAX:
	ALT PHONE:
	EMAIL: matt.jl.patterson@gmail.com

COMMENTS MATTHEW: This sample from your Jeep's transmission looks great. Universal averages show typical results for the ZF 8HP with about 68,000 miles on the oil. It sounds like this is the factory oil fill, so it's actually a bit surprising to find wear metals close to averages. There's usually some amount of extra metal from the normal break-in process, but that not being the case here certainly isn't a bad thing. The lack of insolubles shows no oxidized solids in the oil. The viscosity is also in grade for a typical ATF. We'd just check back at the next service to start wear trends.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil		UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit							
	Sample Date	2/26/2023						
	Make Up Oil Added	0 qts						
ALUMINUM	56	56					41	
CHROMIUM	0	0					0	
IRON	189	189					219	
COPPER	35	35					85	
LEAD	0	0					1	
TIN	5	5					5	
MOLYBDENUM	0	0					0	
NICKEL	0	0					0	
MANGANESE	4	4					3	
SILVER	0	0					0	
TITANIUM	0	0					0	
POTASSIUM	6	6					4	
BORON	131	131					132	
SILICON	15	15					15	
SODIUM	11	11					9	
CALCIUM	549	549					528	
MAGNESIUM	6	6					4	
PHOSPHORUS	520	520					564	
ZINC	8	8					10	
BARIUM	1	1					0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	45.5	42-51				
	cSt Viscosity @ 100°C	5.88	4.8-7.9				
	Flashpoint in °F	400	>335				
	Fuel %	-					
	Antifreeze %	0.0	0.0				
	Water %	0.0	0.0				
	Insolubles %	0.0	<0.1				
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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