



OIL REPORT

LAB NUMBER:
 REPORT DATE: 3/15/2022
 CODE: 20/68

UNIT ID:
 CLIENT ID:
 PAYMENT:

UNIT	EQUIP. MAKE/MODEL: Transmission ZF 8HP	OIL TYPE & GRADE: ZF LifeGuard 8
	FUEL TYPE:	OIL USE INTERVAL: 60,245 Miles
	ADDITIONAL INFO: 8HP45	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

COMMENTS Universal averages for a ZF 8HP are based on about 70,000 miles on the oil. Your transmission looks fine by those standards, and some of the metal in this sample is probably lingering from the initial break-in process given this is the original fluid. That means we'll probably find less metal in your next sample, though nothing looks concerning here to begin with. There are no signs of contamination, though we are glad you replaced this oil since insolubles (oxidized solids from heat and use) are high at 0.3%. Check back in 60,000-70,000 miles for another look.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	60,245	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	60,245						
	Sample Date	2/22/2022						
	Make Up Oil Added							
ALUMINUM	51	48					40	
CHROMIUM	0	0					0	
IRON	228	201					215	
COPPER	149	126					82	
LEAD	1	1					1	
TIN	9	8					5	
MOLYBDENUM	0	0					0	
NICKEL	0	0					0	
MANGANESE	2	2					3	
SILVER	0	0					0	
TITANIUM	0	0					0	
POTASSIUM	5	4					5	
BORON	141	144					132	
SILICON	13	13					14	
SODIUM	8	7					10	
CALCIUM	584	567					533	
MAGNESIUM	3	3					4	
PHOSPHORUS	564	531					552	
ZINC	9	8					13	
BARIUM	0	0					0	

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	43.2	42-51				
	cSt Viscosity @ 100°C	5.17	4.8-7.9				
	Flashpoint in °F	400	>335				
	Fuel %	-					
	Antifreeze %	0.0					
	Water %	0.0	0.0				
	Insolubles %	0.3	<0.1				
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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