



# OIL REPORT

LAB NUMBER: [REDACTED]  
REPORT DATE: 3/15/2022  
CODE: [REDACTED]

UNIT ID: [REDACTED]  
CLIENT ID: [REDACTED]  
PAYMENT: Prepaid

UNIT

MAKE/MODEL: Transmission ZF 8HP  
FUEL TYPE:  
ADDITIONAL INFO: 8HP45

OIL TYPE & GRADE: ZF LifeGuard 8  
OIL USE INTERVAL: 60,245 Miles

CLIENT

PHONE: [REDACTED]  
FAX:  
ALT PHONE:  
EMAIL: [REDACTED]

COMMENTS

[REDACTED]: 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	51						41
	CHROMIUM	0	0						0
	IRON	228	228						219
	COPPER	149	149						89
	LEAD	1	1						1
	TIN	9	9						6
MOLYBDENUM	0	0							0
NICKEL	0	0							0
MANGANESE	2	2							3
SILVER	0	0							0
TITANIUM	0	0							0
POTASSIUM	5	5							4
BORON	141	141							134
SILICON	13	13							14
SODIUM	8	8							9
CALCIUM	584	584							529
MAGNESIUM	3	3							3
PHOSPHORUS	564	564							570
ZINC	9	9							10
BARIUM	0	0							0

Values  
Should Be\*

PROPERTIES	SUS Viscosity @ 210°F	43.2	43-51					
	cSt Viscosity @ 100°C	5.17	5.1-7.9					
	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

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