



OIL REPORT

LAB NUMBER: K09437

UNIT ID: 2013 MAZDA-TR

REPORT DATE: 4/5/2018

CLIENT ID:

CODE: 44/32

PAYMENT:

UNIT

MAKE/MODEL: Transmission Mazda Automatic
FUEL TYPE:
ADDITIONAL INFO: CX-5

OIL TYPE & GRADE: Mazda ATF FZ
OIL USE INTERVAL: 51,000 Miles

CLIENT

COMMENTS

RICHARD: We're pleasantly surprised that this was the original oil from your Mazda's transmission. Usually, the factory oil looks pretty rough, due to all the excess metal and silicon from wear-in. That isn't the case here. Metals are very close to what universal averages show as typical for a Mazda automatic, and those averages are based on just ~26,000 miles on the oil. Viscosity is a bit thin, maybe due to a little heat on the oil, but we don't see that as a problem. No insolubles are present, so the oil wasn't overly oxidized. We'd say this fluid worked well. Nice report.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	51,000	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	51,000							
	Sample Date	3/24/2018							
	Make Up Oil Added								
	ALUMINUM	20		20					23
	CHROMIUM	1		1					0
	IRON	98		98					85
	COPPER	69		69					58
	LEAD	0		0					10
	TIN	3		3					3
	MOLYBDENUM	1		1					1
	NICKEL	0		0					2
	MANGANESE	4		4					4
	SILVER	0		0					0
	TITANIUM	0		0					0
	POTASSIUM	4		4					2
	BORON	47		47					82
	SILICON	36		36					24
	SODIUM	11		11					9
	CALCIUM	124		124					207
	MAGNESIUM	2		2					41
	PHOSPHORUS	272		272					380
	ZINC	8		8					90
	BARIUM	9		9					3

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	42.9	43-51					
	cSt Viscosity @ 100°C	5.08	5.1-7.9					
	Flashpoint in °F	350	>335					
	Fuel %	-	<0.0					
	Antifreeze %	0.0						
	Water %	0.0	<0.1					
	Insolubles %	0.0	<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