



OIL REPORT

REPORT DATE: 8/29/2018

UNIT ID: 18 4RUNNER-RD

UNIT

MAKE/MODEL: Differential Toyota
FUEL TYPE:
ADDITIONAL INFO: Rear DiffOIL TYPE & GRADE: Diff. Fluid
OIL USE INTERVAL: 5,000 Miles

COMMENTS

You noted a lot of metal in the oil, and we're not surprised to hear that from a break-in sample. You should find less and less as this differential sees more oil changes. There is a fair amount of iron in the sample after 5,000 miles (averages are based on ~28,000 miles of use), but that's just break-in material. You requested a TBN for this diff fluid, but that's not a useful metric for oil like this, so we ran a TAN instead. It came back at 2.6, which is typical of used gear lube. Feel free to run out to the average interval on the current fill, and just check back.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	5,000	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	5,000							
	Sample Date	8/11/2018							
	Make Up Oil Added	0 qts							
	ALUMINUM	0	0						1
	CHROMIUM	2	2						2
	IRON	177	177						173
	COPPER	0	0						1
	LEAD	0	0						1
	TIN	0	0						1
	MOLYBDENUM	0	0						13
	NICKEL	0	0						1
	MANGANESE	9	9						7
	SILVER	0	0						0
	TITANIUM	0	0						0
	POTASSIUM	0	0						2
	BORON	207	207						145
	SILICON	4	4						17
	SODIUM	2	2						5
	CALCIUM	8	8						124
	MAGNESIUM	3	3						18
	PHOSPHORUS	1411	1411						1429
	ZINC	6	6						62
	BARIUM	9	9						6

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	63.0						
	cSt Viscosity @ 100°C	11.07						
	Flashpoint in °F	395	>340					
	Fuel %	-						
	Antifreeze %	-						
	Water %	0.0	0.0					
	Insolubles %	0.4	<0.6					
	TBN							
	TAN	2.6						
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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