



OIL REPORT

LAB NUMBER: K21866

UNIT ID: 02 4RUNNER

REPORT DATE: 5/22/2018

CLIENT ID: [REDACTED]

CODE: 20/685

PAYMENT: Prepaid

UNIT

MAKE/MODEL: Toyota 3.4L V-6 (5VZ-FE)
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO:

OIL TYPE & GRADE: Valvoline 5W/30 Syn
OIL USE INTERVAL: 3,300 Miles

CLIENT

PHONE: [REDACTED]

FAX: [REDACTED]

ALT PHONE: [REDACTED]

EMAIL: [REDACTED]

COMMENTS

KYLE: Amended for comments on make-up oil. The only thing that really stands out here is lead. It's a shade high compared to averages and that might show a bit of bearing wear. (And it'd be higher had you not added so much oil -- make-up oil dilutes metals in our testing). But with everything else looking so good (averages are based on 5,800 miles), we'd like to just see how lead looks next time before worrying too much about it. Maybe it's just operational in nature. The TBN's fine. Try up to 4,500 miles for next time, and we'll see how the trends look.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	3,300	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	157,000							
	Sample Date	5/12/2018							
	Make Up Oil Added	5.5 qts							
ALUMINUM	1	1							2
CHROMIUM	0	0							0
IRON	3	3							6
COPPER	2	2							4
LEAD	6	6							2
TIN	0	0							1
MOLYBDENUM	1	1							77
NICKEL	0	0							0
MANGANESE	0	0							0
SILVER	0	0							0
TITANIUM	0	0							2
POTASSIUM	2	2							2
BORON	1	1							42
SILICON	10	10							14
SODIUM	288	288							63
CALCIUM	2267	2267							1955
MAGNESIUM	10	10							208
PHOSPHORUS	861	861							701
ZINC	957	957							832
BARIUM	0	0							0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	56.6	55-62					
	cSt Viscosity @ 100°C	9.25	8.8-11.1					
Flashpoint in °F	410	>365						
Fuel %	<0.5	<2.0						
Antifreeze %	0.0	0.0						
Water %	0.0	<0.1						
Insolubles %	0.2	<0.6						
TBN	3.9	>1.0						
TAN								
ISO Code								

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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