OIL ANALYSIS REPORT

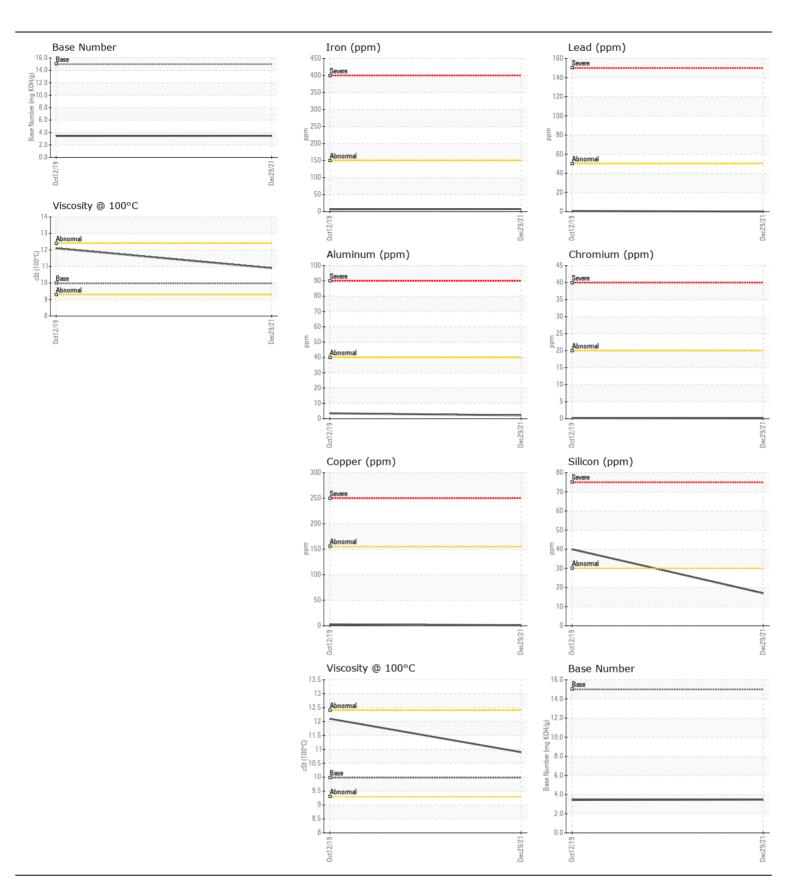
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

TOYOTA 2015 TUNDRA

Component Gasoline Engine

TRC PRO-SPEC MULTI VISC 5W30 (8 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR05435682	TR04825040	
	Sample Date		Client Info		29 Dec 2021	12 Oct 2019	
	Machine Age	hrs	Client Info		167300	118563	
	Oil Age	hrs	Client Info		11766	16018	
	Filter Age	hrs	Client Info		11766	16018	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
VEAR	Iron	ppm	ASTM D5185m	>150	7	7	
	Chromium	ppm	ASTM D5185m		<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m		2	4	
	Lead	ppm	ASTM D5185m	>50	0	<1	
	Copper	ppm	ASTM D5185m	>155	1	3	
	Tin	ppm	ASTM D5185m	>10	0	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon		ACTM DE10Em	. 20	47	A 40	
CONTAMINATION		ppm	ASTM D5185m ASTM D5185m		17 0	<u>40</u>	
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	WC Method			5 <1.0	
	Water		WC Method		<1.0 NEG	NEG	
	Glycol		WC Method	>0.2	NEG	NEG	
	Soot %	%	*ASTM D7844		0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	14.9	15.7	
	Sulfation	Abs/.1mm	*ASTM D7415		28.4	32.7	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
THE CONDITION				400			
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>400	2	3	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		13	13	
	Barium	ppm	ASTM D5185m		2 157	0	
	Molybdenum	ppm	ASTM D5185m		157	142	
	Magnesium	ppm	ASTM D5185m		<1 400	<1	
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m	1200	490 1423	12 2198	
	Phosphorus	ppm	ASTM D5185m		767	668	
	Zinc	ppm	ASTM D5185m	800	857	796	
	Sulfur	ppm	ASTM D5185m	300	1995	1144	
	Oxidation	Abs/.1mm	*ASTM D3163111	>25	25.2	30	
	Base Number (BN)		ASTM D2896		3.47	3.44	
	Dado Hambor (DIV)	mg nong	.101111 DE000		J. 11	0. 11	







Laboratory Sample No. Lab Number

: 05435682 Unique Number : 9799875

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 03 Jan 2022 : TR05435682 Diagnosed : 05 Jan 2022

Diagnostician

: Jonathan Hester

Test Package : MOB 2 Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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