OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id

TOYOTA 14

Gasoline Engine

TRC PRO-SPEC MULTI-VIS SR 5W20 (5 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR04784216		
	Sample Date		Client Info		15 Jan 2019		
	Machine Age	mls	Client Info		117457		
	Oil Age	mls	Client Info		6887		
	Filter Age	mls	Client Info		6887		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
VEAR	Iron	nnm	ASTM D5185m	×150	32		
WEAR	Chromium	ppm	ASTM D5185m		رد <1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1		
		ppm		>5			
	Titanium	ppm	ASTM D5185m	0	<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		7		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		1		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>30	25		
	Potassium	ppm	ASTM D5185m	>20	8		
There is no indication of any contamination in the oil.	Fuel		WC Method	>4.0	<1.0		
	Water	%	ASTM D6304		0.121		
	ppm Water	ppm	ASTM D6304		1210		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	13.2		
	Sulfation	Abs/.1mm	*ASTM D7415		24.4		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.2	NEG		
LUID CONDITION	0 "			400	•		
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m	>400	9 28		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m ASTM D5185m		20		
		ppm					
	Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m		135		
	Magnesium	ppm	ASTM D5185m		<1 60		
	Calcium	ppm		4200	60 2007		
		ppm	ASTM D5185m		2007		
	Phosphorus	ppm	ASTM D5185m		623		
	Zinc	ppm	ASTM D5185m	800	803		
	Sulfur	ppm Aba/1mm	ASTM D5185m	. 05	1831		
	Oxidation	Abs/.1mm	*ASTM D7414		19.6 3.64		
	Base Number (BN)		ASTM D2896				

Contact/Location: PHILIP HARDER - PHIMOU







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: TR04784216 Lab Number : 04784216 Unique Number : 8712025

Tested Diagnosed

Received

: 23 Aug 2019

: 26 Aug 2019

: 26 Aug 2019 - Don Baldridge

Test Package : MOB 2 (Additional Tests: KF)

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) **PHIL HARDER**

57803 350TH STREET MOUNTAIN LAKE, MN

US 56159 Contact: PHILIP HARDER

philbren@frontiernet.net

T: 5(07)227-6074

Contact/Location: PHILIP HARDER - PHIMOU