

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

**OIL ANALYSIS REPORT** 

## Machine Id **TOYOTA HALEIGH** Component **Gasoline Engine** Fluid **TRC PRO-SPEC SYNTHETIC 0W20 (--- QTS)**

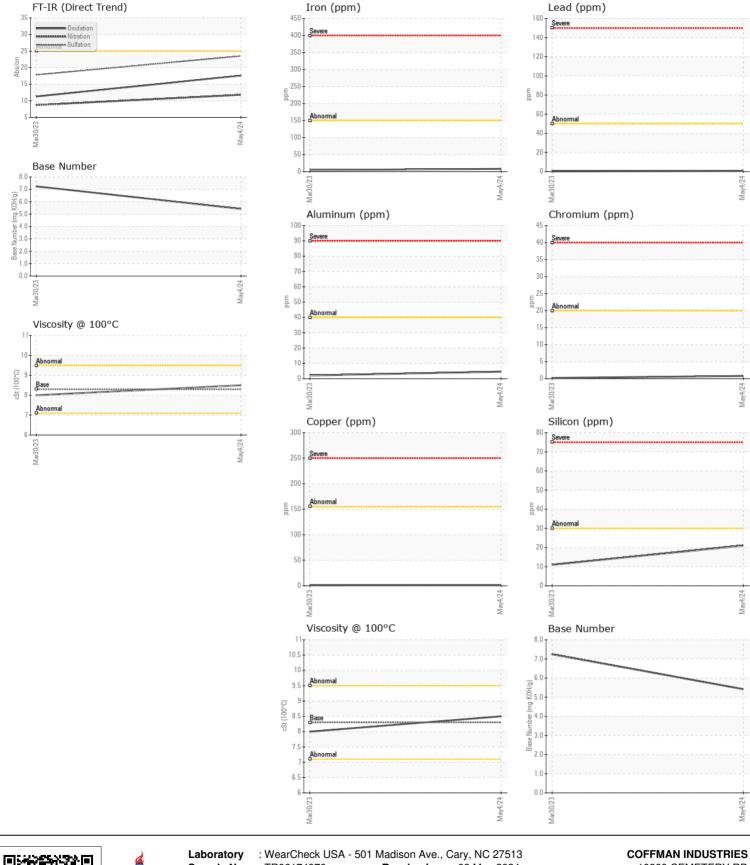
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06174070	TR05897585	
	Sample Date		Client Info		04 May 2024	30 Mar 2023	
	Machine Age	mls	Client Info		93900	86983	
	Oil Age	mls	Client Info		7000	2245	
	Filter Age	mls	Client Info		7000	2245	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>150	8	4	
	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m		5	2	
	Lead	ppm	ASTM D5185m		<1	<1	
	Copper	ppm	ASTM D5185m		1	1	
	Tin	ppm	ASTM D5185m		<1	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION There is no indication of any contamination in the oil.							
	Silicon	ppm	ASTM D5185m		21	11	
	Potassium	ppm	ASTM D5185m		4	2	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	11.8	8.7	
	Sulfation	Abs/.1mm	*ASTM D7415		23.5	17.8	
	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	
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m	>400	0	<1	
	Boron	ppm	ASTM D5185m		19	77	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		270	269	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		448	508	
	Calcium	ppm	ASTM D5185m	2100	1390	1370	
	Phosphorus	ppm	ASTM D5185m		686	702	
	Zinc	ppm	ASTM D5185m	870	810	853	
	Sulfur	ppm	ASTM D5185m		2348	2518	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	11.3	
	Base Number (BN)	mg KOH/g	ASTM D2896		5.42	7.24	
	Vier @ 10000	- 01		0.0		0	

Visc @ 100°C cSt

ASTM D445 8.3

8

8.5



**COFFMAN INDUSTRIES** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 10800 CEMETERY RD : TR06174070 :09 May 2024 Lab Number : 06174070 CANYON, TX Tested : 10 May 2024 Diagnosed Unique Number : 11020123 : 10 May 2024 - Wes Davis US 79015 Test Package : MOB 2 Contact: MIKE LEWIS 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. T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (806)655-2577

Contact/Location: MIKE LEWIS - COFCAN Page 2 of 2