CONTAMINATION FLUID CONDITION OIL ANALYSIS REPORT

NORMAL WEAR SEVERE ABNORMAL

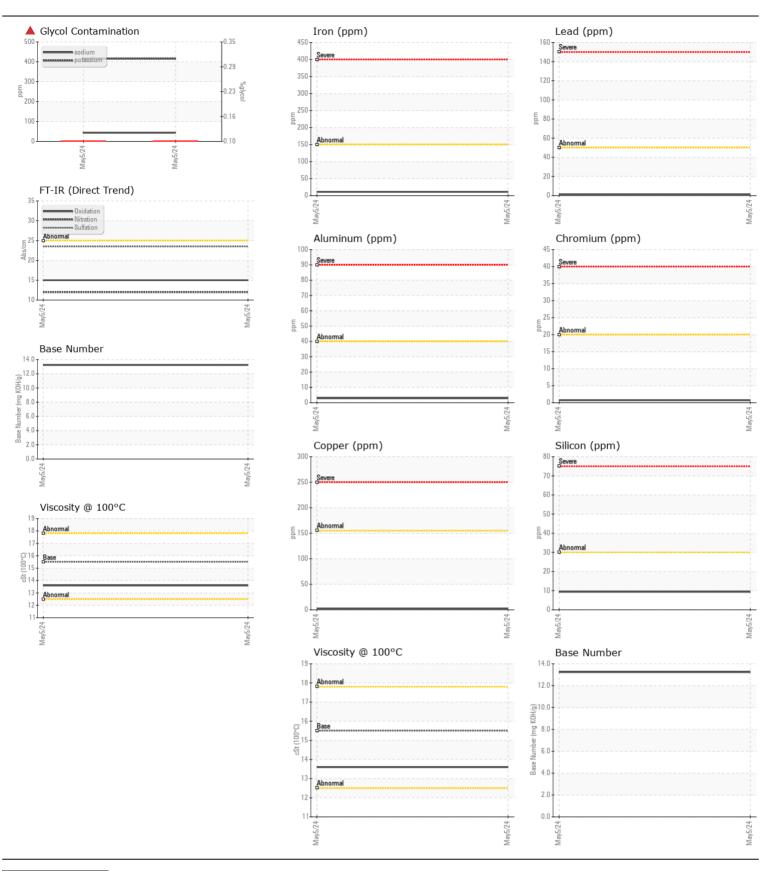
Machine Id

SUBARU SUBARU CROSSTREK

Gasoline Engine

TRC PRO-SPEC III SYNTHETIC BLEND 15W40 (5 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		TR06174084		
	Sample Date		Client Info		05 May 2024		
	Machine Age	mls	Client Info		0		
	Oil Age	mls	Client Info		8200		
	Filter Age	mls	Client Info		8200		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				SEVERE		
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WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>150	11		
	Chromium	ppm	ASTM D5185m	>20	<1		
	Nickel	ppm	ASTM D5185m	>5	<1		
	Titanium	ppm	ASTM D5185m		1		
	Silver	ppm	ASTM D5185m	>2	0		
	Aluminum	ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		2		
	Tin	ppm	ASTM D5185m	>10	1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>30	9		
	Potassium	ppm	ASTM D5185m	>20	415		
Sodium and/or potassium levels are high. Test for glycol is positive.	Fuel		WC Method	>4.0	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol	%	*ASTM D2982		4 0.10		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	12.0		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5		
	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	Sodium	ppm	ASTM D5185m	>400	43		
	Boron	ppm	ASTM D5185m		0		
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		2		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		22		
	Calcium	ppm	ASTM D5185m		5009		
	Phosphorus	ppm	ASTM D5185m		1050		
	Zinc	ppm	ASTM D5185m		1187		
	Sulfur	ppm	ASTM D5185m		4822		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0		
	Base Number (BN)		ASTM D2896	0	13.24		
		THIN TOTAL					





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06174084

: TR06174084

Received **Tested**

Unique Number : 11020137 Diagnosed

Test Package : MOB 2 (Additional Tests: Glycol)

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.

: 09 May 2024

: 10 May 2024

: 12 May 2024 - Don Baldridge

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

DARREN MUNSELL

16501 CANYON, TX US 79015 Contact: MIKE LEWIS

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