

### **OIL ANALYSIS REPORT**



# SUBARU 2019 SUBARU CROSSTREK

Gasoline Engine Fluid MOBIL 1 I-30 (--- GAL)

#### DIAGNOSIS

#### Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high concentration of water present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. Test for glycol is negative.

#### Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06182064		
Sample Date		Client Info		14 May 2024		
Machine Age	mls	Client Info		95000		
Oil Age	mls	Client Info		8000		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	5		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>40	1		
Lead	ppm	ASTM D5185m	>50	1		
Copper	ppm	ASTM D5185m	>155	<1		
Tin	ppm	ASTM D5185m	>10	1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		44		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		86		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m		572		
Calcium	ppm	ASTM D5185m		1136		
Phosphorus	ppm	ASTM D5185m		672		
Zinc	ppm	ASTM D5185m		741		
Sulfur	ppm	ASTM D5185m		3687		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	<b>A</b> 39		
Sodium	ppm	ASTM D5185m	>400	10		
Potassium	ppm	ASTM D5185m	>20	3		
Water	%	ASTM D6304	>0.2	<b>1.67</b>		
ppm Water	ppm	ASTM D6304	>2000	<b>16700</b>		
Glycol	%	*ASTM D2982		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1		
Nitration	Abs/cm	*ASTM D7624	>20	13.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3		
Acid Number (AN)	ma KOH/a	ASTM D8045		2.26		

Contact/Location: STEVE SPRY - STERIVMD



## **OIL ANALYSIS REPORT**



Contact/Location: STEVE SPRY - STERIVMD

E:

/lav