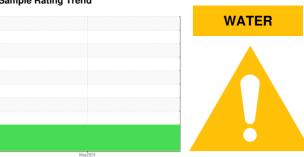


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id 98021

Gasoline Engine

**GASOLINE ENGINE OIL SAE 5W30 (--- GAL** 

### **DIAGNOSIS**

#### Recommendation

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

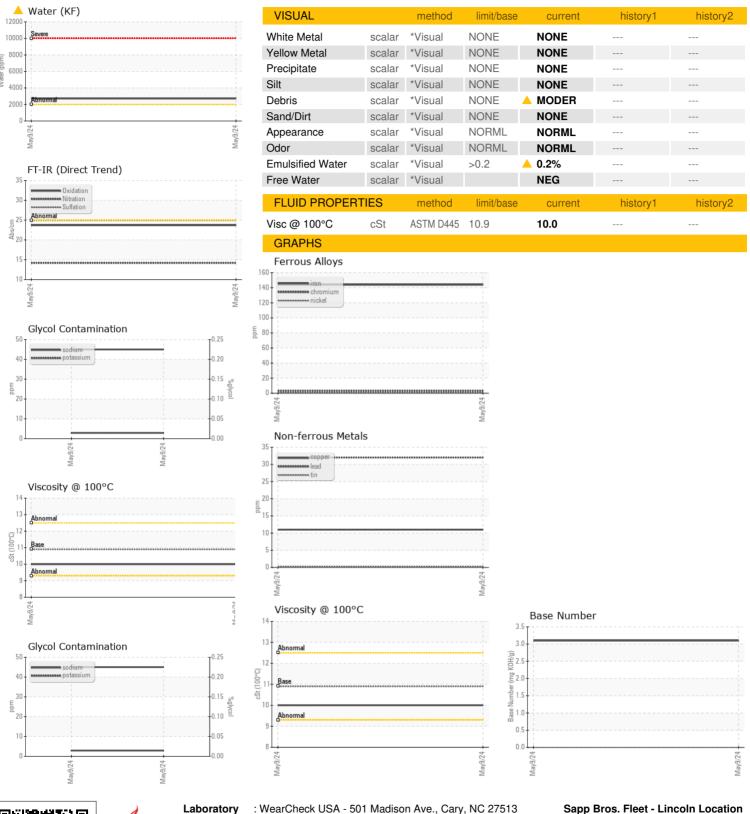
#### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

L)			1	May2024		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0001991		
Sample Date		Client Info		09 May 2024		
Machine Age	mls	Client Info		197200		
Oil Age	mls	Client Info		7500		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION		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	144		
Chromium	ppm	ASTM D5185m	>20	3		
Nickel	ppm	ASTM D5185m	>5	2		
Titanium	ppm	ASTM D5185m		2		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>40	8		
Lead	ppm	ASTM D5185m	>50	32		
Copper	ppm	ASTM D5185m	>155	11		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	75	23		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	100	254		
Manganese	ppm	ASTM D5185m		3		
Magnesium	ppm	ASTM D5185m	12	451		
Calcium	ppm	ASTM D5185m	2100	1455		
Phosphorus	ppm	ASTM D5185m	650	736		
Zinc	ppm	ASTM D5185m	850	904		
Sulfur	ppm	ASTM D5185m	2500	2565		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	28		
Sodium	ppm	ASTM D5185m	>400	45		
Potassium	ppm	ASTM D5185m	>20	3		
Water	%	ASTM D6304	>0.2	<u> </u>		
ppm Water	ppm	ASTM D6304	>2000	<b>2720</b>		
Glycol	%	*ASTM D2982		NEG		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1		
Nitration	Abs/cm	*ASTM D7624	>20	14.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.9		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.7		
	mg KOH/g	ASTM D2896		3.1		
(10.00) D	0				::: LD IED!	



## **OIL ANALYSIS REPORT**







Sample No.

Laboratory

: SBP0001991 Lab Number : 06193271

Received

**Tested** Diagnosed

: 28 May 2024 : 31 May 2024 : 31 May 2024 - Jonathan Hester

US Contact: Service Manager

Test Package : FLEET ( Additional Tests: Glycol, KF ) Certificate 12367

Unique Number : 11050023

To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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)

T:

F: