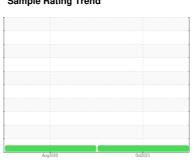


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



Machine Id **223023-632101** 

Component

**Gasoline Engine** 

**GASOLINE ENGINE OIL SAE 5W20 (--- GAI** 

# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the

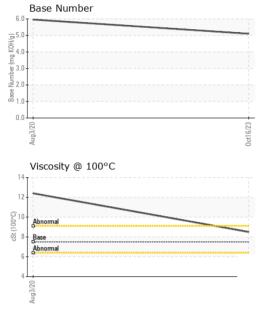
## **Fluid Condition**

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

L)			Aug2020	0ct2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0093409	GFLH-519860	
Sample Date		Client Info		16 Oct 2023	03 Aug 2020	
Machine Age	mls	Client Info		375733	9901	
Oil Age	mls	Client Info		0	36	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	1.5	
Glycol		WC Method		NEG	NEG	
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	26	5	
Chromium	ppm	ASTM D5185m	>20	1	0	
Nickel	ppm	ASTM D5185m	>5	<1	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>40	8	4	
Lead	ppm	ASTM D5185m	>50	0	0	
Copper	ppm	ASTM D5185m	>155	<1	0	
Tin	ppm	ASTM D5185m	>10	0	0	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	75	21	271	
Barium	ppm	ASTM D5185m	5	0	0	
Molybdenum	ppm	ASTM D5185m	100	106	92	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m	12	442	497	
Calcium	ppm	ASTM D5185m	2100	1343	1354	
Phosphorus	ppm	ASTM D5185m	650	648	661	
Zinc	ppm	ASTM D5185m	850	805	757	
Sulfur	ppm	ASTM D5185m	2500	2503		
Lithium	ppm	ASTM D5185m			0	
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	13	6	
Sodium	ppm	ASTM D5185m	>50	3	1	
Potassium	ppm	ASTM D5185m	>20	2	0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	
Nitration	Abs/cm	*ASTM D7624	>20	10.5	9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
			-			
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	15	
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25	14.9 5.1	15 5.96	



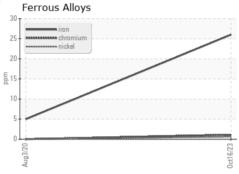
# **OIL ANALYSIS REPORT**

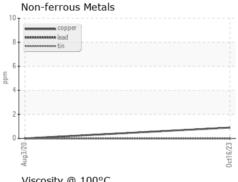


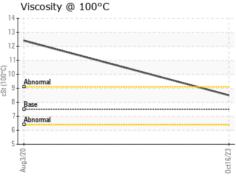
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
	DTIES	mothod	limit/bass	ourropt	historya	hiotory

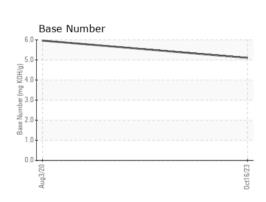
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	7.5	8.5	12.4	

## **GRAPHS**











Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10700059 Test Package : FLEET

: GFL0093409 : 05982764

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Oct 2023

Diagnosed : 20 Oct 2023 Diagnostician : Sean Felton

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

GFL Environmental - 892 - Pauls Valley Hauling

405 East Airport Industrial Road Pauls Valley, OK US 73075

Contact: Tony Graham tgraham2@wcamerica.com

T:

Report Id: GFL892 [WUSCAR] 05982764 (Generated: 10/22/2023 20:18:29) Rev: 1

Contact/Location: Tony Graham - GFL892

F: