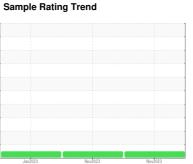


# **OIL ANALYSIS REPORT**









Machine Id **912105** Component **Diesel Engine** 

**DIESEL ENGINE OIL SAE 40 (60 QTS)** 

# DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the

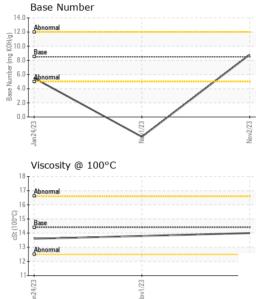
#### **Fluid Condition**

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

SAE 40 (60 QTS)  January Novárza Novárza Novárza						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info		GFL0092716 02 Nov 2023	GFL0092656 01 Nov 2023	GFL0072357 24 Jan 2023
Machine Age	hrs	Client Info		2300	2300	2300
Oil Age	hrs	Client Info		130	622	2300
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL		NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	8	<u> </u>	25
Chromium	ppm	ASTM D5185m	>20	<1	3	1
Nickel	ppm	ASTM D5185m	>15	<1	4	4
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	1	4	2
Lead	ppm	ASTM D5185m	>40	0	8	1
Copper	ppm	ASTM D5185m	>330	2	15	16
Tin	ppm	ASTM D5185m	>15	<1	3	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	14	7	3
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	61	65	60
Manganese	ppm	ASTM D5185m		<1	2	<1
Magnesium	ppm	ASTM D5185m	450	962	973	891
Calcium	ppm	ASTM D5185m	3000	1136	1229	1067
Phosphorus	ppm	ASTM D5185m	1150	1055	1028	883
Zinc	ppm	ASTM D5185m	1350	1322	1365	1135
Sulfur	ppm	ASTM D5185m	4250	3269	2325	2534
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	15	5
Sodium	ppm	ASTM D5185m	>216	<1	15	6
Potassium	ppm	ASTM D5185m	>20	<1	4	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	2.1	1
Nitration	Abs/cm	*ASTM D7624	>20	5.4	11.2	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	24.7	22.1
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	21.9	18.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.8	△ -2.8	5.5
= 3.00 · (2.14)			5.0			0.0



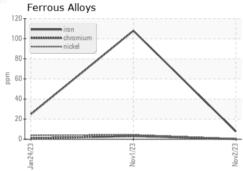
## **OIL ANALYSIS REPORT**

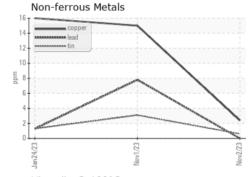


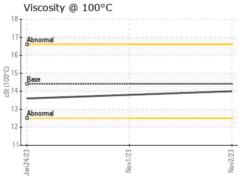
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

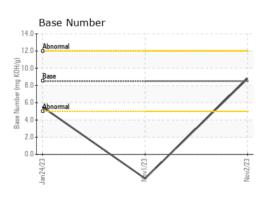
FLUID PROPI	ERIIES	method			riistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	14.4	14.0	13.8	13.6

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10727184

: GFL0092716 : 05998824 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Nov 2023 Diagnosed : 07 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 005 - Wilson/Tri-East(CNG) 2810 Contentnea Road S

Wilson, NC US 27893-8501 Contact: SPENCER LIGGON spencer.liggon@gflenv.com

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (800)207-6618 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)