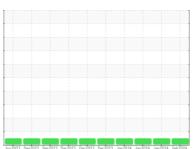


# **OIL ANALYSIS REPORT**

#### Sample Rating Trend









(413UA)
Machine Id
813012
Component
Discoll Engine

Diesel Engine

**DIESEL ENGINE OIL SAE 40 (--- GAL)** 

# DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil.

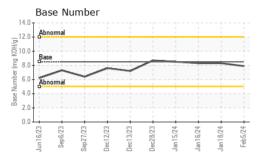
#### **Fluid Condition**

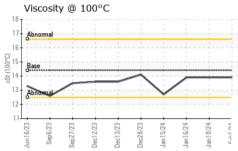
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAE 40 ( GAL)  Jundo 3 Supto 23 Supto 23 Ducto 23 Ducto 23 Ducto 23 Ducto 23 Jundo 24 Jundo 24 February February						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108273	GFL0108324	GFL0098178
Sample Date		Client Info		05 Feb 2024	18 Jan 2024	16 Jan 2024
Machine Age	hrs	Client Info		3468	3351	3341
Oil Age	hrs	Client Info		3468	3351	3341
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	8	9	9
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	2	4	2
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	1	2	<1
Lead	ppm	ASTM D5185m	>40	0	1	0
Copper	ppm	ASTM D5185m	>330	1	2	1
Tin	ppm	ASTM D5185m	>15	<1	2	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	11	10	10
Barium	ppm	ASTM D5185m	10	0	1	0
Molybdenum	ppm	ASTM D5185m	100	56	58	61
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m	450	904	926	1040
Calcium	ppm	ASTM D5185m	3000	1012	1068	1159
Phosphorus	ppm	ASTM D5185m	1150	1013	925	1095
Zinc	ppm	ASTM D5185m	1350	1217	1207	1349
Sulfur	ppm	ASTM D5185m	4250	2879	3121	3432
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	4
Sodium	ppm	ASTM D5185m	>216	<1	0	2
Potassium	ppm	ASTM D5185m	>20	0	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.9	7.0	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	18.5	18.5
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	13.9	13.8
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.9	8.3	8.3



## **OIL ANALYSIS REPORT**



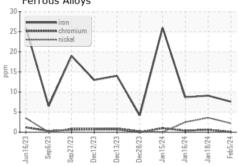


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

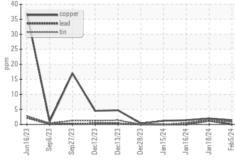
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.9	13.9	13.9

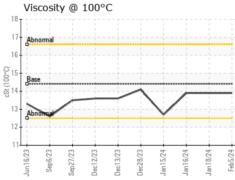
### **GRAPHS**

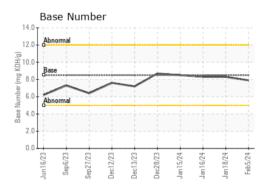
#### Ferrous Alloys















Report Id: GFL652 [WUSCAR] 06083024 (Generated: 02/08/2024 16:41:59) Rev: 1

Laboratory Sample No.

: GFL0108273 Lab Number : 06083024 Unique Number : 10870469

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Feb 2024 **Tested** : 08 Feb 2024

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

Diagnosed

: 08 Feb 2024 - Wes Davis

GFL Environmental - 652 - Fredericksburg Hauling

10954 Houser Drive Fredericksburg, VA

US 22408 Contact: TECHNICIAN ACCOUNT

Test Package : FLEET Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. catherine.anastasio@wearcheck.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Submitted By: TECHNICIAN ACCOUNT

T:

F: