

OIL ANALYSIS REPORT

Sample Rating Trend



813016 Component Diesel Engine

Area (41408UA)

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

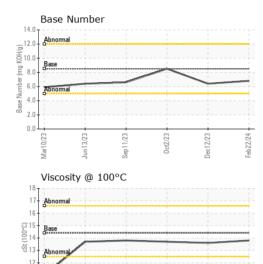
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AE 40 (GAL)		Mar2023	Jun2023 Sep202	3 Oct2023 Dec2023	Feb 2024	
SAMPLE INFOF	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111845	GFL0098204	GFL0083902
Sample Date		Client Info		22 Feb 2024	12 Dec 2023	02 Oct 2023
lachine Age	hrs	Client Info		3305	3122	2599
Dil Age	hrs	Client Info		3305	0	2599
Dil Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
uel		WC Method	>3.0	<1.0	<1.0	<1.0
Vater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	13	17	7
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
lickel	ppm	ASTM D5185m	>5	2	4	<1
ītanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	0
ead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	2	4	2
īn	ppm	ASTM D5185m	>15	0	1	<1
/anadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	7	5	7
Barium	ppm	ASTM D5185m	10	8	12	0
lolybdenum	ppm	ASTM D5185m	100	63	63	59
langanese	ppm	ASTM D5185m		0	<1	<1
lagnesium	ppm	ASTM D5185m	450	915	962	982
Calcium	ppm	ASTM D5185m	3000	1089	1121	1091
Phosphorus	ppm	ASTM D5185m	1150	1031	978	1000
Zinc	ppm	ASTM D5185m	1350	1233	1254	1229
Sulfur	ppm	ASTM D5185m	4250	3208	3056	3073
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	4
Sodium	ppm	ASTM D5185m	>216	0	0	1
Potassium	ppm	ASTM D5185m	>20	4	2	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.5	0.3
litration	Abs/cm	*ASTM D7624	>20	9.0	9.4	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	20.9	18.6
FLUID DEGRA		method	limit/base	current	history1	history2
Dxidation	Abs/.1mm	*ASTM D7414	>25	15.7	16.8	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.8	6.4	8.5



Mar10/23

OIL ANALYSIS REPORT



Sen11/23

Dec12/23

20

18

16

Ba

12

10

Lab Number : 06100029

Unique Number : 10898259

Laboratory Sample No. Mar10/23

: GFL0111845

Mar10/23

un13/23

Viscosity @ 100°C

Jun13/23

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
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROP	ERTIES	method	limit/base	current	history1	history2
Vier @ 100%			14.4			
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	13.6	13.7
	cSt	ASTM D445	14.4	13.8	13.6	13.7
GRAPHS Ferrous Alloys	cSt	ASTM D445	14.4	13.8	13.6	13.7
GRAPHS Ferrous Alloys	cSt	ASTM D445		13.8	13.6	13.7
GRAPHS Ferrous Alloys	cSt	ASTM D445		13.8	13.6	13.7
GRAPHS Ferrous Alloys				13.8	13.6	13.7
GRAPHS Ferrous Alloys	Sep11/23			13.8	13.6	13.7

Feb22/24

Feb22/24.

: 26 Feb 2024

: 27 Feb 2024

: 27 Feb 2024 - Wes Davis

14.0 12.0

(B/H0.0 8.0

6.0 - A5

N ase 4.0

2.0

0.0

Mar10/23

Base

Base Number

Jun 13/23

lec12/23

Dec12/23 -

VISUAI method limit/base current history1 history2



 Certificate L2367
 Test Package
 : FLEET
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 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)

Sep11/23.

0ct2/23 -

Received

Diagnosed

Tested

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sep11/23

GFL Environmental - 652 - Fredericksburg Hauling 10954 Houser Drive Fredericksburg, VA s US 22408 Contact: WILLIAM MILO wmilo@gflenv.com T: CGM 106:2012) F:

Dec12/23

Feb22/24

Sep11/23

Submitted By: TECHNICIAN ACCOUNT