

# **OIL ANALYSIS REPORT**

Sample Rating Trend





### Area (F985HW) Machine Id 428087

Component Diesel Engine

## **DIESEL ENGINE OIL SAE 15W40 (9 GAL)**





SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0099031	GFL0098960	GFL009896
Sample Date		Client Info		13 Feb 2024	23 Jan 2024	27 Dec 202
Machine Age	hrs	Client Info		10405	10260	10169
Oil Age	hrs	Client Info		10260	9102	9102
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<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	history
Iron	ppm	ASTM D5185m	>100	3	11	6
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	mag	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	1	3
Lead	ppm	ASTM D5185m	>40	0	-1	<1
Conner	nnm	ASTM D5185m	< <u>330</u>	0	1	<1
Tin	nnm	ASTM D5185m	>15	~1	-1	<1
Vanadium	nom	ASTM D5185m	210	0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm	method	limit/base	current	history1	history
ADDITIVES		methou	iiiiii/base	Current	Thistory	THSTOLY
Boron	ppm	ASTM D5185m	250	1	0	0
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	50	56	53
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	450	781	1004	902
Calcium	ppm	ASTM D5185m	3000	1093	1086	980
Phosphorus	ppm	ASTM D5185m	1150	993	1050	972
Zinc	ppm	ASTM D5185m	1350	1136	1258	1215
Sulfur	ppm	ASTM D5185m	4250	2857	3161	2935
CONTAMINAN	ITS	method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185m	>25	3	6	5
Sodium	ppm	ASTM D5185m	>158	<1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	<1	0
INFRA-RED		method	limit/base	current	history1	history
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.3	7.3	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	18.2	18.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.6	13.9	13.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.5	8.0	7.9

# DIAGNOSIS Recommendation

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

Fluic

## 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.

Submitted By: GFL084, GFL842, GFL844, GFL846 - ROBERT THIBAULT



# **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
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPEI	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	12.9	13.0	13.3
GRAPHS						





 Certificate L2367
 Test Package
 : FLEET
 Contact: ROBERT THIBAULT

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 robert.thibault@gflenv.com

 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 T: (931)552-7276

 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)
 F: (931)572-9674

Submitted By: GFL084,GFL842,GFL844,GFL846 - ROBERT THIBAULT