

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Area **166** Machine Id **414061** Component **Diesel Engine** 

Fluid DIESEL ENGINE OIL SAE 15W40 (--- 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.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091249	GFL0081207	GFL0091231
Sample Date		Client Info		08 Nov 2023	23 Oct 2023	11 Oct 2023
Machine Age	hrs	Client Info		10002	10002	8838
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL
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	maa	ASTM D5185m	>120	5	32	30
Chromium	maa	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	3	2
Titanium	maa	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	1	11	10
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	19	154	145
Tin	ppm	ASTM D5185m	>15	<1	3	3
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base 250	current 14	history1 245	history2 241
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base 250 10	current 14 0	history1 245 0	history2 241 0
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 250 10 100	current 14 0 62	history1 245 0 116	history2 241 0 117
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 250 10 100	current 14 0 62 <1	history1 245 0 116 4	history2 241 0 117 4
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 250 10 100 450	current           14           0           62           <1           903	history1 245 0 116 4 692	history2 241 0 117 4 687
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 250 10 100 450 3000	current           14           0           62           <1           903           1078	history1 245 0 116 4 692 1305	history2 241 0 117 4 687 1334
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 250 10 100 450 3000 1150	current           14           0           62           <1           903           1078           1001	history1 245 0 116 4 692 1305 708	history2 241 0 117 4 687 1334 697
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 250 10 100 450 3000 1150 1350	current           14           0           62           <1           903           1078           1001           1149	history1 245 0 116 4 692 1305 708 833	history2 241 0 117 4 687 1334 697 837
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	limit/base 250 10 100 450 3000 1150 1350 4250	current           14           0           62           <1           903           1078           1001           1149           3106	history1 245 0 116 4 692 1305 708 833 2777	history2 241 0 117 4 687 1334 697 837 2610
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 250 10 100 450 3000 1150 1350 4250 limit/base	current           14           0           62           <1           903           1078           1001           1149           3106	history1 245 0 116 4 692 1305 708 833 2777 history1	history2 241 0 117 4 687 1334 697 837 2610 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS	method           ASTM D5185m	limit/base 250 10 100 450 3000 1150 1350 4250 kimit/base >25	current           14           0           62           <1           903           1078           1001           1149           3106           current           8	history1         245         0         116         4         692         1305         708         833         2777         history1         ▲         62	history2         241         0         117         4         687         1334         697         837         2610         history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS	method           ASTM D5185m	limit/base 250 10 100 450 3000 1150 1350 4250 kimit/base >25 >158	current           14           0           62           <1           903           1078           1001           1149           3106           current           8           <1	history1         245         0         116         4         692         1305         708         833         2777         history1         62         4	history2 241 0 117 4 687 1334 697 837 2610 history2 ▲ 63 4
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method           ASTM D5185m	limit/base 250 10 100 450 3000 1150 1350 4250 25 >25 >158 >20	current           14           0           62           <1           903           1078           1001           1149           3106           current           8           <1           4	history1         245         0         116         4         692         1305         708         833         2777         history1         62         4         62         4         62         4         62         4         26	history2 241 0 117 4 687 1334 697 837 2610 history2 ▲ 63 4 24
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# **OIL ANALYSIS REPORT**



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de de de la construir de la construire de la construire de la construire de la construire de l	1/23	13/23	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML	_
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FLUID PROPERTIES       method       imit/base       current       history1       history2         Visc @ 100°C       cSi       ASTM D445       14.4       13.7       9.9       4.9.9         Image: State of the stat			Free Water	scalar	*Visual		NEG	NEG	NEG	
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CRAPHS Formus Alloys Formus Alloys		/	Visc @ 100°C	cSt	ASTM D445	14.4	13.7	<b>9</b> .9	<b>9</b> .9	
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Image: signal state       Image: signal state<			Ferrous Alloys							
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<ul> <li>a b b</li> <li>b b</li> <li>c b boratory : WearCheck USA - 501 Madison Ave. Cary, NC 2751 Simple No. : C EFLO 1912/9 : Received :: 17 Nov 2023 Simple root. Contact Customer Service at 1-800-237-1365</li> <li>c b contact customer Service at 1-800-237-1365</li> <li>c b contact subta contact customer Service at 1-800-237-1365</li> </ul>	p21/2	423/2	30 - chromium							
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Laboratory       WearCheck USA - 501 Madison Ave., Cary, NC 27513       GFL Environmental - 166 - Phenix City         Sample No.       GFL0091249       Diagnosed       20 Nov 2023         Network       FET       Diagnosed       20 Nov 2023         Octools this sample report, contact Customer Service at 1-800-237-1365.       Charced Customer Service at 1-800-237-1365.       GFL Environmental - 166 - Phenix City         Prenotes test methods that are outside of the ISO 17025 scope of accreditation.       T:       Statements of specification are basedide and the signal are greatence on the (LCGM 106/202)       F:			120 sessesses lead		$\langle \rangle$					
Laboratory:       WearCheck USA - 501 Madison Ave., Cary, NC 27513       GEL Environmental - 166 - Phenix City         Sample No.       CiffLoop1249       Received       17 Nov 2023         Network       CiffLoop1249       Received       17 Nov 2023         Network       Setting Received       17 Nov 2023         Network       CiffLoop1249       Received       17 Nov 2023         Test Range report, contact Customer Service at 1-800-237-1369.       - Denotes test methods that are outside of the ISO 17025 scope of accreditation.       Figure 1420			100							
Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C         Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C         Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C         Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C         Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C         Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C         Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C         Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C         Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C         Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C         Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C       Image: Number in Section 2012 to 100°C         Image: Number in Section			E 80		<u>ا ا</u>					
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Viscosity @ 100°C Viscosity @ 1			Aug	0ct 0ct	Oct	No				
Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : GFL0091249 Lab Number : 006011365 Unique Number : 10750509 Test Package : FLEET 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. Test package is that are outside of the ISO 17025 scope of accreditation. Test package is that are outside of the ISO 17025 scope of accreditation. Test package is that are outside of the ISO 17025 scope of accreditation. Test package is that are outside of the ISO 17025 scope of accreditation. Test package is that are outside of the ISO 17025 scope of accreditation. Test package is that are outside of the ISO 17025 scope of accreditation. Test package is that are outside of the ISO 17025 scope of accreditation. Test package is that are outside of the ISO 17025 scope of accreditation. Test package is that are outside of the ISO 17025 scope of accreditation. Test package is that are outside of the ISO 17025 scope of accreditation. Test package is that are outside of the ISO 17025 scope of accreditation. Test package is that are outside of the ISO 17025 scope of accreditation. Test package is that are outside of the ISO 17025 scope of accreditation. Test package is that are outside of the ISO 17025 scope of accreditation. Test package is that are outside of the ISO 17025 scope of accreditation. Test package is that are outside of the ISO 17025 scope of accreditation. Test package is that are outside of the ISO 17025 scope of accreditation. Test package is that are outside of the ISO 17025 scope of accreditation. Test package is that are outside of the ISO 17025 scope of accreditation. Test package is that are outside of the ISO 17025 scope of accreditation. Test package is the ISO 17025 scope of accreditation. Test package is that are outside of the ISO 17025 scope of accreditation.			Viscosity @ 100°C				Base Numbe	r		
Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513. Sample No. : GFL0091249 : Received : 17 Nov 2023 Lab Number : 06011365 : Diagnosed : 20 Nov 2023 : Show 2023			17 Abnormal			14.0	0 T			
Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : GFL0091249 Lab Number : 006011365 Unique Number : 10750509 Certificate 12377 For 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. Test Package : FLEET For 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. - Denotes test methods that are outside of the ISO 17025 scope of accreditation. - Denotes test methods that are outside of the ISO 17025 scope of accreditation. - Denotes test methods that are outside of the ISO 17025 scope of accreditation. - Denotes test methods that are outside of the ISO 17025 scope of accreditation. - Denotes test methods that are outside of the ISO 17025 scope of accreditation. - Denotes test methods that are outside of the ISO 17025 scope of accreditation. - Denotes test methods that are outside of the ISO 17025 scope of accreditation. - Denotes test methods that are outside of the ISO 17025 scope of accreditation. - Denotes test methods that are outside of the ISO 17025 scope of accreditation. - Denotes test methods that are outside of the ISO 17025 scope of accreditation. - Denotes test methods that are outside of the ISO 17025 scope of accreditation. - Denotes test methods that are outside of the ISO 17025 scope of accreditation. - Denotes test methods that are outside of the ISO 17025 scope of accreditation. - Denotes test methods that are outside of the ISO 17025 scope of accreditation. - Denotes test methods that are outside of the ISO 17025 scope of accreditation. - Denotes test methods that are outside of the ISO 17025 scope of accreditation. - Denotes test methods that are outside of the ISO 17025 scope of accreditation. - Denotes test methods that are outside of the ISO 17025 scope of accreditation. - Denotes test methods that are outside of the ISO 17025 scope of accredi			16-			12.0	0 - <mark>Abnormal</mark>			
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Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : GFL0091249 Received : 17 Nov 2023 Lab Number : 06011365 Diagnosed : 20 Nov 2023 18 Old Brickyard Rd Unique Number : 10750509 Diagnostician : Wes Davis US 36869 Test Package : FLEET Codiscuss this sample report, contact Customer Service at 1-800-237-1369. Contact: DEAN PEACE JR Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106-2012)			10			2.0	0			
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Submitted By: DARRIN WRIGHT

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