

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 834028 Component Natural Gas Engine Fluid {not provided} (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

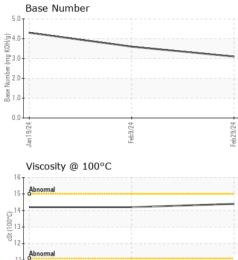
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Jan	2024	Feb2024 Feb202	29	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111833	GFL0108256	GFL0098215
Sample Date		Client Info		29 Feb 2024	09 Feb 2024	19 Jan 2024
Machine Age	hrs	Client Info		695	557	395
Oil Age	hrs	Client Info		695	557	395
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	51	42	37
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	1	2	2
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>9	3	2	2
Lead	ppm	ASTM D5185m	>30	5	2	2
Copper	ppm	ASTM D5185m	>35	18	19	19
Tin	ppm	ASTM D5185m	>4	2	2	2
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES		methou			Thistory I	
Boron	ppm	ASTM D5185m	IIIII/Dase	3	4	11
	ppm ppm		IIIII/Dase			
Boron		ASTM D5185m		3	4	11
Boron Barium	ppm	ASTM D5185m ASTM D5185m		3 4	4 17	11 5
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		3 4 55	4 17 50	11 5 53
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		3 4 55 14	4 17 50 13	11 5 53 14
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		3 4 55 14 926	4 17 50 13 721	11 5 53 14 793
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		3 4 55 14 926 1332	4 17 50 13 721 1136	11 5 53 14 793 1167
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		3 4 55 14 926 1332 760	4 17 50 13 721 1136 684	11 5 53 14 793 1167 619
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	3 4 55 14 926 1332 760 946	4 17 50 13 721 1136 684 822	11 5 53 14 793 1167 619 892
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	3 4 55 14 926 1332 760 946 2433	4 17 50 13 721 1136 684 822 2512	11 5 53 14 793 1167 619 892 2256
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	3 4 55 14 926 1332 760 946 2433 current	4 17 50 13 721 1136 684 822 2512 history1	11 5 53 14 793 1167 619 892 2256 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	3 4 55 14 926 1332 760 946 2433 current 33	4 17 50 13 721 1136 684 822 2512 history1 32	11 5 53 14 793 1167 619 892 2256 history2 36
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >+100	3 4 55 14 926 1332 760 946 2433 current 33 5	4 17 50 13 721 1136 684 822 2512 history1 32 1	11 5 53 14 793 1167 619 892 2256 history2 36 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	limit/base >+100 >20	3 4 55 14 926 1332 760 946 2433 current 33 5 8	4 17 50 13 721 1136 684 822 2512 history1 32 1 32 1 33	11 5 53 14 793 1167 619 892 2256 history2 36 0 3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >+100 >20 limit/base	3 4 55 14 926 1332 760 946 2433 current 33 5 8 8	4 17 50 13 721 1136 684 822 2512 history1 32 1 3 3 history1	11 5 53 14 793 1167 619 892 2256 history2 36 0 3 3 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >+100 >20 limit/base	3 4 55 14 926 1332 760 946 2433 <i>current</i> 33 5 8 <i>current</i> 0	4 17 50 13 721 1136 684 822 2512 history1 32 1 3 3 history1 0	11 5 53 14 793 1167 619 892 2256 history2 36 0 3 3 history2 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >+100 >20 limit/base	3 4 55 14 926 1332 760 946 2433 <i>current</i> 33 5 8 <i>current</i> 0 13.3	4 17 50 13 721 1136 684 822 2512 history1 32 1 32 1 3 history1 0 12.5	11 5 53 14 793 1167 619 892 2256 history2 36 0 3 3 history2 0 11.8
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624	limit/base >+100 >20 limit/base >20 >30 limit/base	3 4 55 14 926 1332 760 946 2433 <i>current</i> 33 5 8 <i>current</i> 0 13.3 24.5	4 17 50 13 721 1136 684 822 2512 history1 32 1 32 1 3 history1 0 12.5 23.3 history1	11 5 53 14 793 1167 619 892 2256 history2 36 0 3 3 history2 0 11.8 21.5 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >+100 >20 limit/base >20 >20	3 4 55 14 926 1332 760 946 2433 <i>current</i> 33 5 8 <i>current</i> 0 13.3 24.5	4 17 50 13 721 1136 684 822 2512 history1 32 1 3 history1 0 12.5 23.3	11 5 53 14 793 1167 619 892 2256 history2 36 0 3 3 history2 0 11.8 21.5



11-10 Jan19/24

OIL ANALYSIS REPORT



	White Metal Yellow Metal	scalar scalar	*Visual	NONE	NONE	NONE	NONE		
		scalar							
		Scalal	*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		
Feb9/24 Feb29/24	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML		
Febő	Odor	scalar	*Visual	NORML	NORML	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG		
1	Free Water	scalar	*Visual		NEG	NEG	NEG		
	FLUID PROPE	ERTIES	method	limit/base	current	history1	history2		
	Visc @ 100°C	cSt	ASTM D445		14.4	14.2	14.2		
	GRAPHS								
	Ferrous Alloys								
ACLEC.	50 - chromium								
Lab	40								
	E 30								
	20								
	10 -								
	9/24	9/24		:9/24					
	Jan1	Fer		Feb 2					
		ls							
	20 copper			1					
	nannannann lead								
	15-								
	Eng								
	đ. IV -								
			NTO DESCRIPTION OF STREET, STRE	a Balana					
	9/24 -	9/24 .		9/24 .					
	Jan1	Feb		Feb2					
	Viscosity @ 100°C	2			Baco Numbor				
	¹⁶			4.5					
	15 - C								
	14								
	00-0			Ĕ 2.5					
	55 []] 3			-a 2.0					
	12			N 1.5					
	Abnormal								
	10								
		9/24			9/24	- 9/24			
	Jan19	Feb		Feb 29	Jan 19	Feb.			
Unique Number Test Package	: GFL0111833 : 06109280 : 10912777 : FLEET	Rece Teste Diagr	ived : 05 ed : 06 nosed : 06	1095 Frec	ntal - 652 - Fredericksburg Hauli 10954 Houser Driv Fredericksburg, V US 2240 Contact: WILLIAM MIL wmilo@gflenv.co				
s sample report,									
	Laboratory Sample No. Lab Number Unique Number Test Package	Emulsified Water Free Water Free Water Fluid PROPE Visc @ 100°C GRAPHS Ferrous Alloys	Laboratory Sample No. Laboratory Sample No. Laboratory Test Package : FLUID PROPERTIES Visc @ 100°C cSt GRAPHS Ferrous Alloys Graphic Content of the state Content of the state C	Laboratory : WearCheck USA - 501 Madison Ave., Cary Sample No.: GFLU111833 Lab Number : 10192777 Unique Number : FLEET	Laboratory Sample No. Laboratory Sample No. Lab Number Sample No. Sample No.	Emulsified Water scalar Visual >0.1 NEG Free Water scalar Visual NEG NEG Free Water Scalar Visual NEG NEG Free Water Scalar Visual NEG Neg Non-ferrous Alloys Vorte Scalar Visual Neg Non-ferrous Metals Viscosity @ 100°C Viscosity @ 100°C Sample No. Lab Number Sample No. GFL0111833 Received : 05 Mar 2024 Unique Number : 06 Mar 2024 Vise Davis Free Package : ELEET	Enulisified Water scalar Visual >0.1 NEG NEG Free Water scalar Visual Neg NEG Neg Neg Neg Neg Neg Neg Neg Neg Neg Neg		



Report Id: GFL652 [WUSCAR] 06109280 (Generated: 03/06/2024 14:42:32) Rev: 1

Submitted By: TECHNICIAN ACCOUNT