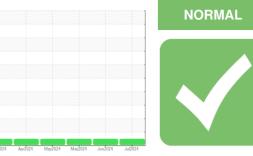


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

834009 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.

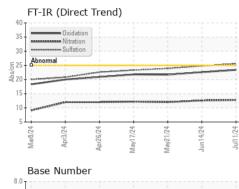
Fluid Condition

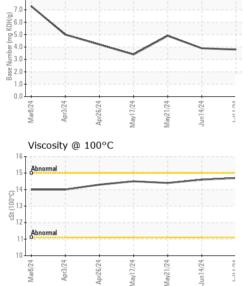
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0127189	GFL0122080	GFL0116589
Sample Date		Client Info		11 Jul 2024	14 Jun 2024	21 May 2024
Machine Age	hrs	Client Info		988	817	651
Oil Age	hrs	Client Info		822	166	651
Oil Changed		Client Info		Not Changd	Not Changd	Changed
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	50	45	50
Chromium	ppm	ASTM D5185m	>4	2	1	2
Nickel	ppm	ASTM D5185m	>2	2	2	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	1
Aluminum	ppm	ASTM D5185m	>9	7	8	8
Lead	ppm	ASTM D5185m	>30	2	2	2
Copper	ppm	ASTM D5185m	>35	18	16	20
Tin	ppm	ASTM D5185m	>4	2	2	2
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 6	history1 9	8
	ppm ppm		limit/base			
Boron		ASTM D5185m	limit/base	6 4 67	9 4 59	8 3 62
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	6 4	9 4	8 3
Boron Barium Molybdenum Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	6 4 67	9 4 59	8 3 62
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	6 4 67 13	9 4 59 13	8 3 62 14
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	6 4 67 13 845 1494 765	9 4 59 13 897 1406 868	8 3 62 14 838 1440 768
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	6 4 67 13 845 1494 765 1078	9 4 59 13 897 1406	8 3 62 14 838 1440
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	limit/base	6 4 67 13 845 1494 765	9 4 59 13 897 1406 868	8 3 62 14 838 1440 768
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	6 4 67 13 845 1494 765 1078 2260 current	9 4 59 13 897 1406 868 1081 3041 history1	8 3 62 14 838 1440 768 1037 2615 history2
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		6 4 67 13 845 1494 765 1078 2260	9 4 59 13 897 1406 868 1081 3041	8 3 62 14 838 1440 768 1037 2615
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	6 4 67 13 845 1494 765 1078 2260 current	9 4 59 13 897 1406 868 1081 3041 history1	8 3 62 14 838 1440 768 1037 2615 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 >+100	6 4 67 13 845 1494 765 1078 2260 current 25	9 4 59 13 897 1406 868 1081 3041 history1 27	8 3 62 14 838 1440 768 1037 2615 history2 32
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	6 4 67 13 845 1494 765 1078 2260 current 25 <1	9 4 59 13 897 1406 868 1081 3041 history1 27 6	8 3 62 14 838 1440 768 1037 2615 history2 32 4
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	6 4 67 13 845 1494 765 1078 2260 current 25 <1 16	9 4 59 13 897 1406 868 1081 3041 history1 27 6 16	8 3 62 14 838 1440 768 1037 2615 history2 32 4 17
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >+100 >20 limit/base	6 4 67 13 845 1494 765 1078 2260 current 25 <1 16 current	9 4 59 13 897 1406 868 1081 3041 history1 27 6 16 16 history1	8 3 62 14 838 1440 768 1037 2615 history2 32 4 17 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 >20	6 4 67 13 845 1494 765 1078 2260 current 25 <1 16 current 0	9 4 59 13 897 1406 868 1081 3041 history1 27 6 16 16 history1 0	8 3 62 14 838 1440 768 1037 2615 history2 32 4 17 history2 0.4
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 >20	6 4 67 13 845 1494 765 1078 2260 <i>current</i> 25 <1 16 <i>current</i> 0 12.8	9 4 59 13 897 1406 868 1081 3041 history1 27 6 16 16 history1 0 12.6	8 3 62 14 838 1440 768 1037 2615 history2 32 4 17 history2 0.4 12.0
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 >30 limit/base	6 4 67 13 845 1494 765 1078 2260 current 25 <1 16 current 0 12.8 25.6	9 4 59 13 897 1406 868 1081 3041 history1 27 6 16 16 history1 0 12.6 24.8	8 3 62 14 838 1440 768 1037 2615 history2 32 4 17 history2 0.4 12.0 23.9

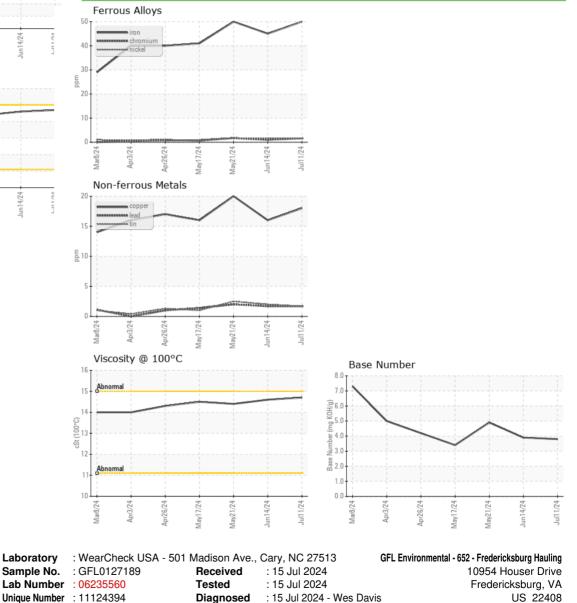


OIL ANALYSIS REPORT





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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	ERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		14.7	14.6	14.4
GRAPHS						





 Unique Number
 : 11124394
 Diagnosed
 : 15 Jul 2024 - Wes Davis

 Certificate 12367
 Test Package
 : FLEET
 Office

 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)

Report Id: GFL652 [WUSCAR] 06235560 (Generated: 07/15/2024 16:53:58) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

T:

F:

Contact: WILLIAM MILO

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