

OIL ANALYSIS REPORT

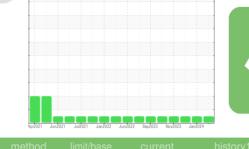
Sample Rating Trend





Area (24552UA) 811009

Fluid DIESEL ENGINE OIL SAE 40 (--- GAL)





	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		GFL0108302	GFL0108346	GFL0098226
	Sample Date		Client Info		29 Jan 2024	05 Jan 2024	12 Dec 2023
he	Machine Age	hrs	Client Info		7953	7787	7669
	Oil Age	hrs	Client Info		7953	7787	7669
	Oil Changed		Client Info		Not Changd	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINAT		method	limit/base	current	history1	history2
	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method	20.2	NEG	NEG	NEG
				1 <i>n</i>	-		
	WEAR METAL	_S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	3	4	11
	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
	Nickel	ppm	ASTM D5185m	>5	<1	<1	1
	Titanium	ppm	ASTM D5185m	>2	<1	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	1	2
	Lead	ppm	ASTM D5185m	>40	<1	<1	<1
	Copper	ppm	ASTM D5185m	>330	10	7	4
	Tin	ppm	ASTM D5185m	>15	<1	<1	1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	250	8	11	6
	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	61	56	58
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m	450	886	923	932
	Calcium	ppm	ASTM D5185m	3000	1115	1081	1051
	Phosphorus	ppm	ASTM D5185m	1150	957	1033	978
	Zinc	ppm	ASTM D5185m	1350	1190	1224	1270
	Sulfur	ppm	ASTM D5185m	4250	3063	3065	2736
	CONTAMINAN	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	2	3	4
	Sodium	ppm	ASTM D5185m	>216	0	<1	<1
	Potassium	ppm	ASTM D5185m	>20	3	1	0
	INFRA-RED		method	limit/base	current	history1	history2
	Spot %	%	*ASTM D7844	>4	0.4	0.3	0.7
	Soot %			00		0.1	0.0
	Nitration	Abs/cm	*ASTM D7624	>20	7.1	6.1	9.2
		Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415		18.5	18.0	9.2 20.4
	Nitration	Abs/.1mm	*ASTM D7415				
	Nitration Sulfation	Abs/.1mm	*ASTM D7415 method	>30 limit/base	18.5 current	18.0 history1	20.4 history2
	Nitration Sulfation FLUID DEGRA	Abs/.1mm	*ASTM D7415	>30 limit/base >25	18.5	18.0	20.4

DIAGNOSIS Recommendation

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

Wear

All component wear rates are normal.

Contamination

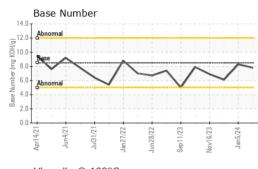
There is no indication of any contamination in the oil.

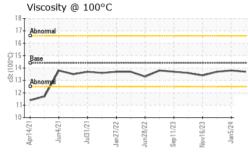
Fluid Condition

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

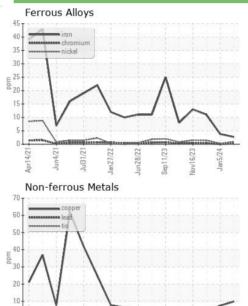


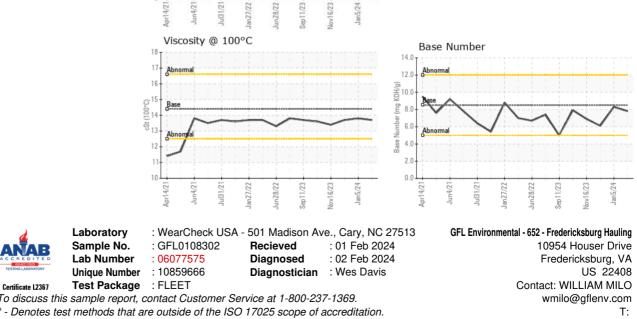
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.7	13.8	13.7
GRAPHS						







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)

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Submitted By: TECHNICIAN ACCOUNT

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