

OIL ANALYSIS REPORT

Sample Rating Trend

Sep2021 Feb2022 Feb2022 Oct2022 Jan2023 Jan2023 Feb2023



Machine Id 945012 Component Natural Gas Engine

RDL-3647 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

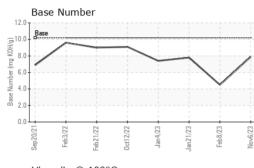
Fluid Condition

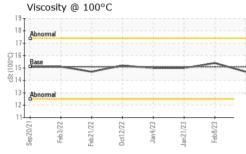
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084658	GFL0068548	GFL0068570
Sample Date		Client Info		06 Nov 2023	08 Feb 2023	21 Jan 2023
Machine Age	hrs	Client Info		0	18107	156
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	13	15	5
Chromium	ppm	ASTM D5185m	>4	0	1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	0	1	<1
Lead	ppm	ASTM D5185m	>30	0	1	<1
Copper	ppm	ASTM D5185m	>35	0	3	3
Tin	ppm	ASTM D5185m	>4	0	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	26	8	36
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	52	57	53
Manganese	ppm	ASTM D5185m	0	0	2	<1
Magnesium	ppm	ASTM D5185m	560	692	569	594
Calcium	ppm	ASTM D5185m	1510	1663	1705	1783
Phosphorus	ppm	ASTM D5185m	780	888	712	813
Zinc	ppm	ASTM D5185m	870	1092	993	1040
Sulfur	ppm	ASTM D5185m	2040	2702	2517	2897
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	14	6	5
Sodium	ppm	ASTM D5185m		6	7	3
Potassium	ppm	ASTM D5185m	>20	0	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.0	12.7	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	24.8	19.7
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Ovidation	Abo/ 1mm	*ASTM D7414	. 05	10.0	00.0	
Oxidation	Abs/.1mm	ASTIVI D7414	>25	16.3	20.9	16.5
Base Number (BN)	mg KOH/g	ASTM D7414 ASTM D2896	>25	7.9	20.9 4.5	7.8

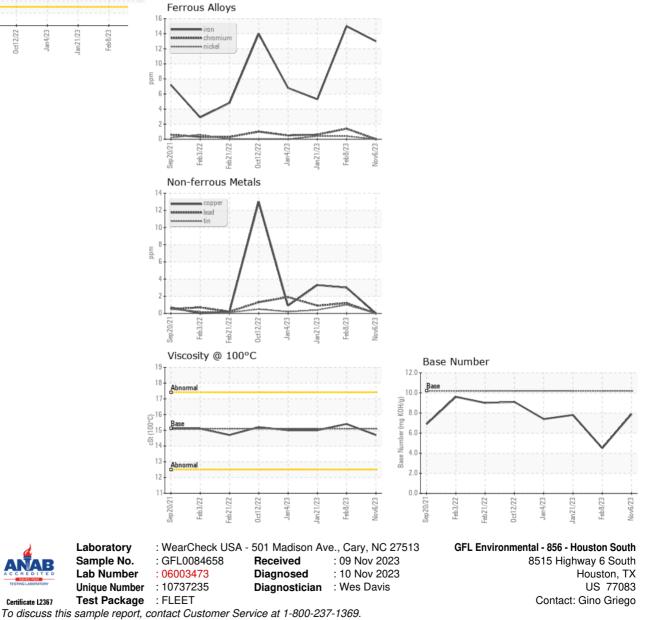


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	>0.1	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	15.1	14.7	15.4	15.0
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)