

OIL ANALYSIS REPORT

Sample Rating Trend



Machine I **AUTOCAR 813022** Component

Diesel Engine DIESEL ENGINE OIL SAE 40 (--- 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.

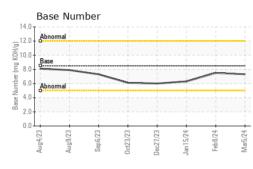
Fluid Condition

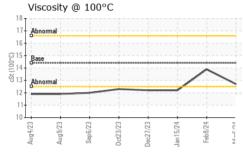
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR		-	limit/base	223 Dec2023 Jan2024 Feb2024 Current	history1	history2
			IIIIII/Dase	GFL0109037	GFL0109076	GFL0109108
Sample Number		Client Info Client Info		05 Mar 2024	08 Feb 2024	15 Jan 2024
Sample Date Machine Age	hrs	Client Info		1451	1326	1188
Oil Age	hrs	Client Info		1451	1326	1188
Oil Changed	1113	Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT		method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base		history1	history2
					,	
Iron Obrease in the	ppm	ASTM D5185m	>100	11	6	25
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m ASTM D5185m		0 11	5	12
Lead	ppm	ASTM D5185m	>20	0	0	0
	ppm	ASTM D5185m		<1	<1	2
Copper Tin	ppm ppm	ASTM D5185m	>15	<1 <1	0	<1
Vanadium	ppm	ASTM D5185m	210	<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	14	15	16
Barium	ppm	ASTM D5185m	10	0	8	0
Molybdenum	ppm	ASTM D5185m	100	84	59	66
Manganese	ppm	ASTM D5185m		0	0	1
Magnesium	ppm	ASTM D5185m	450	1171	706	825
Calcium	ppm	ASTM D5185m	3000	1726	1052	1260
Phosphorus	ppm	ASTM D5185m	1150	1360	835	1015
Zinc	ppm	ASTM D5185m	1350	1774	1054	1252
Sulfur	ppm	ASTM D5185m	4250	4688	2764	3071
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	5
Sodium	ppm	ASTM D5185m	>216	4	0	1
Potassium	ppm	ASTM D5185m	>20	22	13	28
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.3	6.5	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	17.5	19.9
		method	limit/hase	current	history1	history2

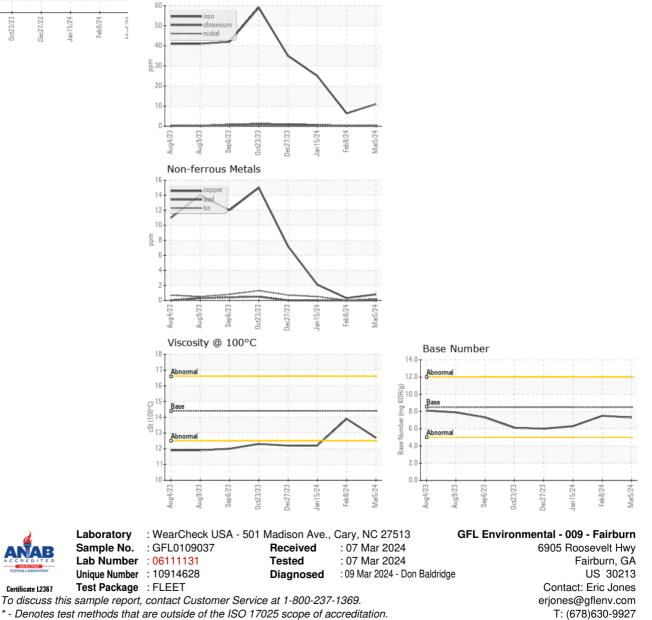


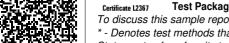
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	12.7	13.9	12.2
GRAPHS						
Ferrous Alloys						





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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