

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 812055

Component Diesel Engine Fluid 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.

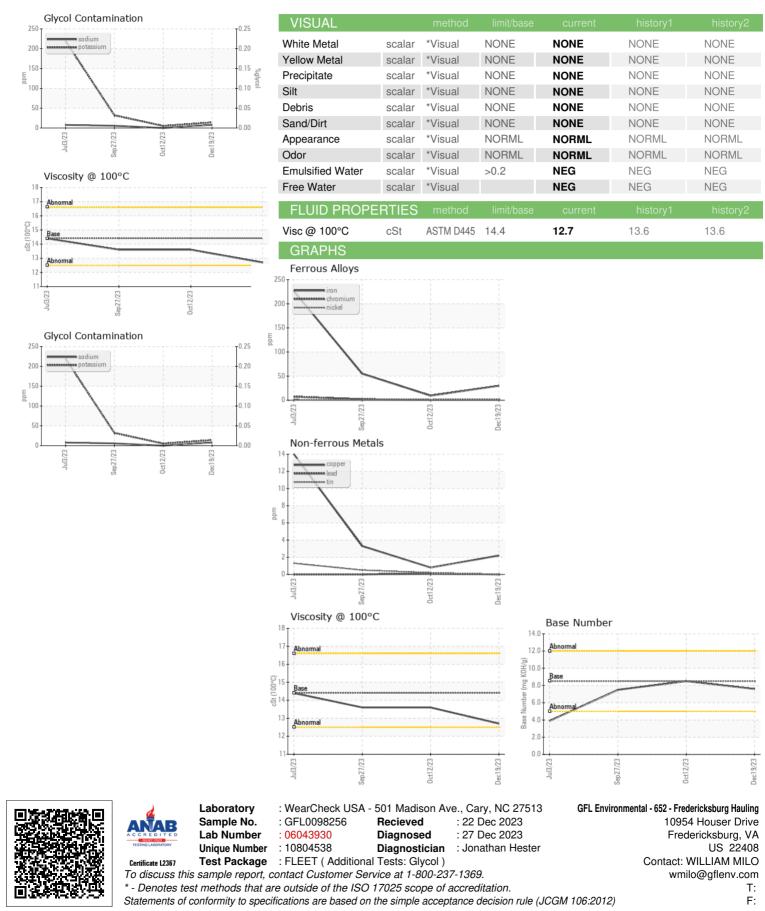
Fluid Condition

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	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098256	GFL0083915	GFL0061543
Sample Date		Client Info		19 Dec 2023	12 Oct 2023	27 Sep 2023
Machine Age	hrs	Client Info		4037	3550	3452
Oil Age	hrs	Client Info		3319	2930	620
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	30	9	55
Chromium	ppm	ASTM D5185m	>20	1	<1	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	17	0	18
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	2	<1	3
Tin	ppm	ASTM D5185m	>15	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	250	9	11	4
Barium	ppm	ASTM D5185m	10	<1	2	0
Molybdenum	ppm	ASTM D5185m	100	63	57	56
Manganese	ppm	ASTM D5185m	450	1	<1	2
Magnesium	ppm	ASTM D5185m	450	966	816	940 1089
Calcium	ppm	ASTM D5185m ASTM D5185m	3000 1150	1123 1125	1015 947	1009
Phosphorus Zinc	ppm	ASTM D5185m	1350	1304	1085	1236
Sulfur	ppm ppm	ASTM D5185m	4250	3071	2771	2909
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	3	8
Sodium	ppm	ASTM D5185m	>216	8	0	6
Potassium	ppm	ASTM D5185m	>20	14	5	32
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.2	0.7
Nitration	Abs/cm	*ASTM D7624	>20	8.5	5.6	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	17.2	20.3
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	13.0	17.1
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.6	8.5	7.5



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Submitted By: TECHNICIAN ACCOUNT