

OIL ANALYSIS REPORT

Sample Rating Trend



Area (48064UA) Fluid

813051 Component Diesel Engine

DIESEL ENGINE OIL S

DIAGNOSIS	
Recommendation	

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

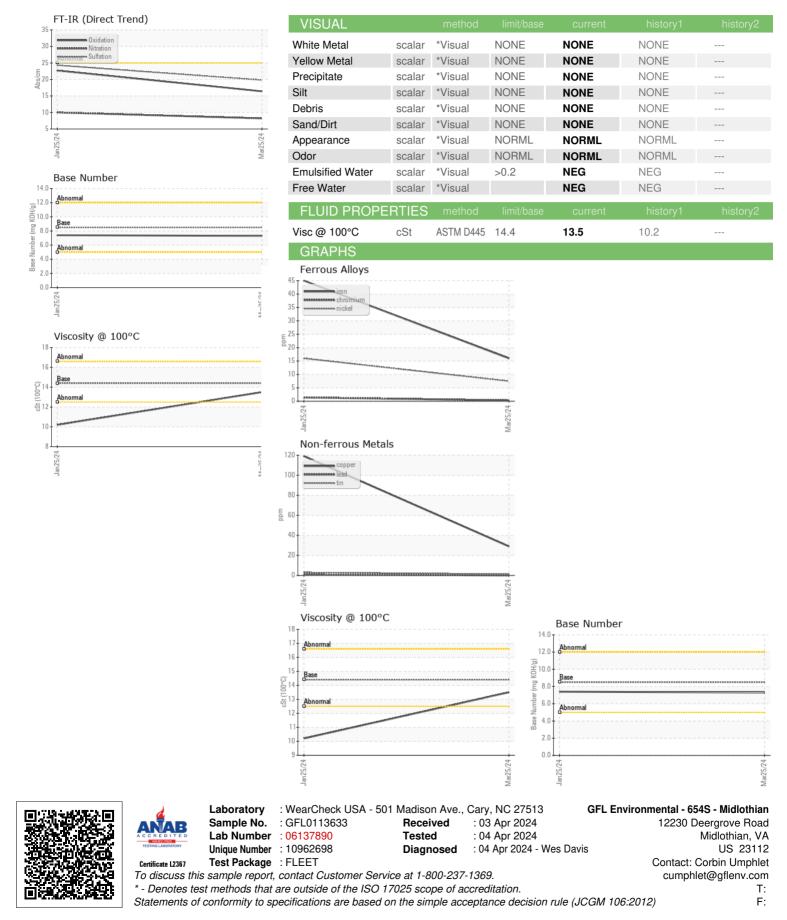
Fluid Condition

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

AE 40 (GAL)		-	Jan2024	Mæ2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113633	GFL0103846	
Sample Date		Client Info		25 Mar 2024	25 Jan 2024	
Machine Age	hrs	Client Info		1074	599	
Oil Age	hrs	Client Info		475	542	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.2	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm		>120	16	45	
Chromium	ppm	ASTM D5185m	>20	<1	1	
Nickel	ppm	ASTM D5185m	>5	8	16	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>2	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	2	4	
_ead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	29	119	
Fin (and a d'anna	ppm	ASTM D5185m	>15	1	3	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	15	222	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	65	115	
Manganese	ppm	ASTM D5185m	450	1	4	
Magnesium	ppm	ASTM D5185m	450	921	690	
	ppm	ASTM D5185m	3000	1111	1429	
Phosphorus	ppm	ASTM D5185m	1150	1027	689	
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	1350 4250	1209 3219	864 2321	
CONTAMINAN		method	limit/base		history1	history2
Silicon		ASTM D5185m	>25	11	▲ 77	
Sodium	ppm ppm	ASTM D5185m	>216	3	3	
Potassium	ppm	ASTM D5185m	>20	0	3	
	ppm				-	
INFRA-RED		method	limit/base		history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	8.2	10.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	24.3	
FLUID DEGRA			limit/base		history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	22.7	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.3	7.4	



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Submitted By: GFL654,GFL654S,GFL659 - Chuck Warr Page 2 of 2