

# **OIL ANALYSIS REPORT**

Sample Rating Trend

limit/base

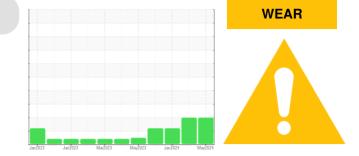


(62A0X0D) TALLASSEE 425027-345507

**Diesel Engine** 

Fluid MOBIL DELVAC 1300 SUPER15W40 (--- LTR)

SAMPLE INFORMATION method



history1

history2

current

D	IAG	515	

## Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

## A Wear

Aluminum ppm levels are abnormal. Piston wear is indicated.

### Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

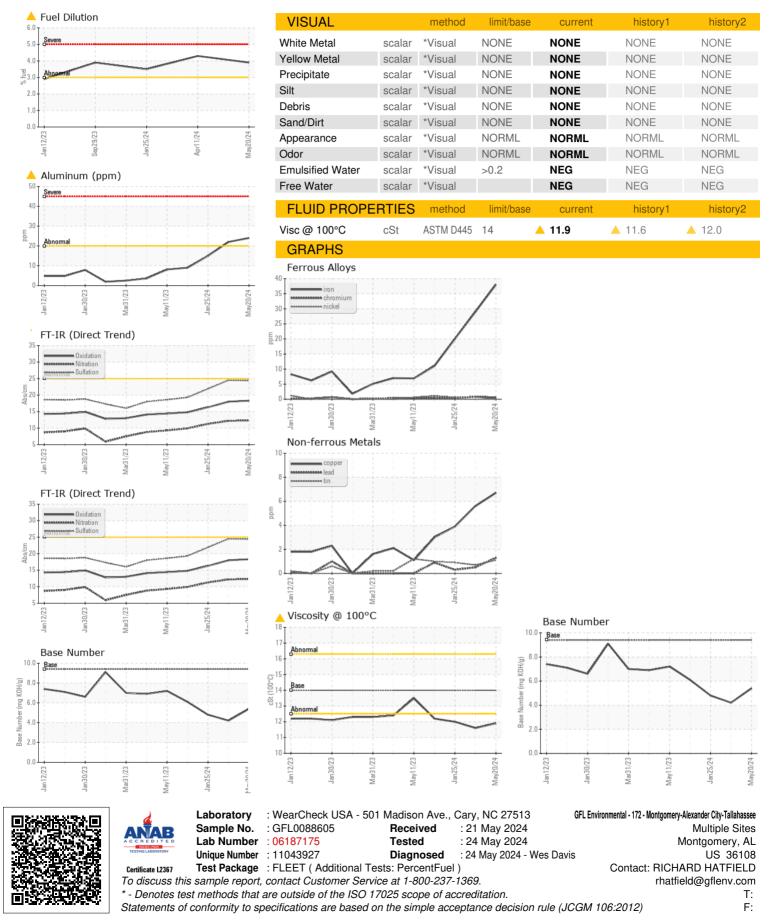
#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sample Number		Client Info		GFL0088605	GFL0080699	GFL0081857
Sample Date		Client Info		20 May 2024	11 Apr 2024	25 Jan 2024
Machine Age	hrs	Client Info		13106	17874	17584
Oil Age	hrs	Client Info		13106	1305	1015
Oil Changed	1110	Client Info		Not Changd	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
					-	-
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	38	29	20
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	<u> </u>	15
Lead	ppm	ASTM D5185m	>40	1	<1	<1
Copper	ppm	ASTM D5185m	>330	7	6	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	0	4	1	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	68	61	62
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	0	834	735	794
Calcium	ppm	ASTM D5185m		1104	1071	1048
Phosphorus	ppm	ASTM D5185m		897	787	837
Zinc	ppm	ASTM D5185m		1111	1003	1109
Sulfur	ppm	ASTM D5185m		2969	2849	2843
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	11	10
Sodium	ppm	ASTM D5185m		7	9	4
Potassium	ppm	ASTM D5185m	>20	1	21	4
Fuel	%	ASTM D3524	>3.0	<b>A</b> 3.9	<b>4</b> .3	▲ 3.5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	1.4	1.3	1
	Abs/cm	*ASTM D7624	>20	12.3	12.2	11.3
Nitration						
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	24.4	24.5	21.9
	Abs/.1mm		>30 limit/base	24.4 current	24.5 history1	21.9 history2
Sulfation	Abs/.1mm		limit/base			



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