

# **OIL ANALYSIS REPORT**



#### Machine Id **123010** Component **Diesel Engine** Fluid **AMOCO 300 15W40 (--- GAL)**

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### Wear

Metal levels are typical for a new component breaking in.

# Contamination

There is no indication of any contamination in the oil.

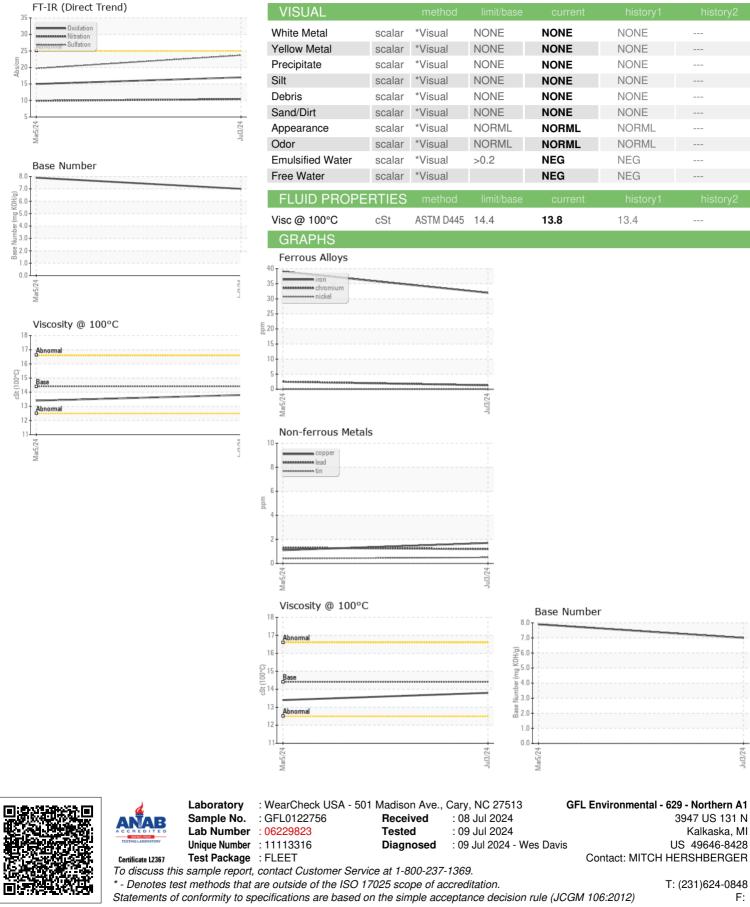
#### Fluid Condition

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		GFL0122756	GFL0110964	
Sample Date		Client Info		03 Jul 2024	05 Mar 2024	
Machine Age	hrs	Client Info		18141	17566	
Oil Age	hrs	Client Info		575	500	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	32	39	
Chromium	ppm	ASTM D5185m	>20	1	2	
Nickel	ppm	ASTM D5185m	>4	0	0	
Titanium	ppm	ASTM D5185m		5	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	4	3	
Lead	ppm	ASTM D5185m	>40	1	1	
Copper	ppm	ASTM D5185m	>330	2	1	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
				·	0	
ADDITIVES		method	limit/base	-	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	-	-	history2
			limit/base	current	history1	
Boron	ppm	ASTM D5185m	limit/base	current	history1 2	
Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m	limit/base	current 181 0	history1 2 0	
Boron Barium Molybdenum	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 181 0 71	history1 2 0 68	
Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 181 0 71 <1	history1 2 0 68 0	
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 181 0 71 <1 600	history1 2 0 68 0 904	
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current           181           0           71           <1           600           1515	history1 2 0 68 0 904 1059	  
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current           181           0           71           <1           600           1515           1004	history1 2 0 68 0 904 1059 1011	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 181 0 71 <1 600 1515 1004 1175 3817	history1 2 0 68 0 904 1059 1011 1158	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		Current 181 0 71 <1 600 1515 1004 1175 3817	history1 2 0 68 0 904 1059 1011 1158 2799	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 181 0 71 <1 600 1515 1004 1175 3817 Current	history1 2 0 68 0 904 1059 1011 1158 2799 history1	     history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	limit/base	Current 181 0 71 <1 600 1515 1004 1175 3817 Current 7	history1           2           0           68           0           904           1059           1011           1158           2799           history1           9	     history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm <b>TS</b>	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	limit/base >25	Current           181           0           71           <1           600           1515           1004           1175           3817           Current           7           5           7           5           7	history1           2           0           68           0           904           1059           1011           1158           2799           history1           9           3	      history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm <b>TS</b>	ASTM D5185m ASTM D5185m	limit/base >25 >20	Current           181           0           71           <1           600           1515           1004           1175           3817           Current           7           5           7           5           7	history1           2           0           68           0           904           1059           1011           1158           2799           history1           9           3           8	     history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >25 >20 limit/base >3	current         181         0         71         <1         600         1515         1004         1175         3817         current         7         5         7         5         7         5         7         Surrent	history1         2         0         68         0         904         1059         1011         1158         2799         history1         9         3         8         history1	     history2    history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >25 >20 limit/base >3	current           181           0           71           <1           600           1515           1004           1175           3817           current           7           5           7           5           7           current           1.1	history1         2         0         68         0         904         1059         1011         1158         2799         history1         9         3         8         history1         1.1	     history2   history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >25 >20 limit/base >3 >20	Current         181         0         71         <1         600         1515         1004         1175         3817         current         7         5         7         5         7         1.1         10.4         23.7	history1         2         0         68         0         904         1059         1011         1158         2799         history1         9         3         8         history1         1.1         9.9	     history2   history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >25 >20 limit/base >3 >20 >3	Current         181         0         71         <1         600         1515         1004         1175         3817         current         7         5         7         5         7         1.1         10.4         23.7	history1         2         0         68         0         904         1059         1011         1158         2799         history1         9         3         8         history1         1.1         9.9         1.2         9.9         1.1         9.9         1.9.7	     history2   history2



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Page 2 of 2