

## **OIL ANALYSIS REPORT**



### Machine Id SCALE Component Genset Fluid DIESEL ENGINE OIL SAE 40 (--- QTS)

## DIAGNOSIS

## Recommendation

We suspect abnormal metal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor.

## 🔺 Wear

Moderate concentration of visible metal present. All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

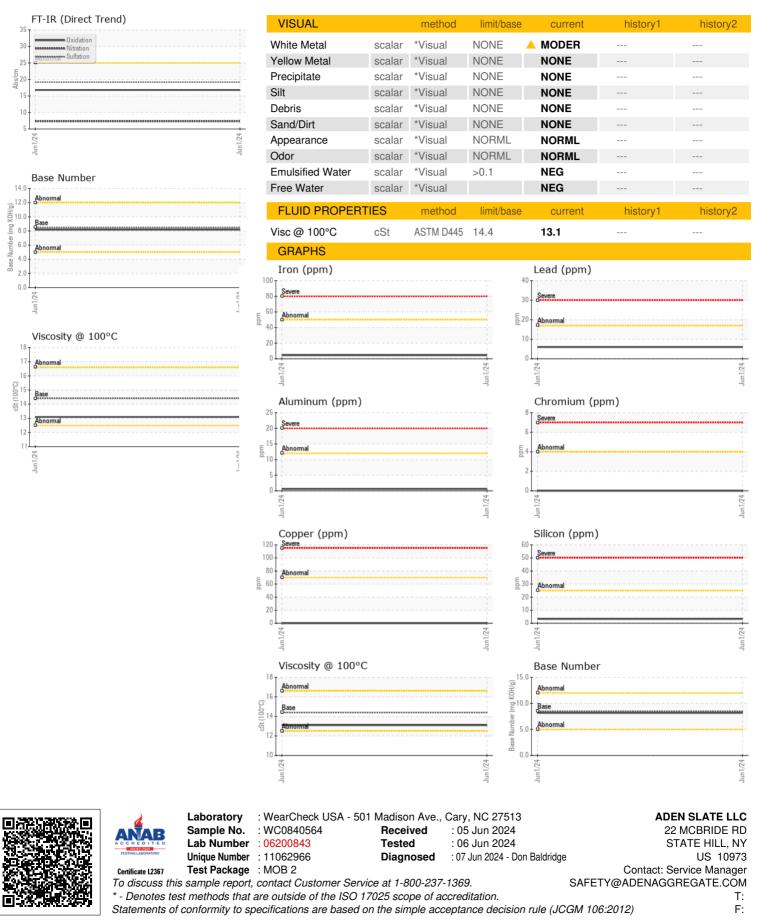
## Fluid Condition

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

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0840564		
Sample Date		Client Info		01 Jun 2024		
Machine Age	hrs	Client Info		1154		
Dil Age	hrs	Client Info		0		
Dil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATION		method	limit/base	current	history1	history2
-uel		WC Method	>4.0	<1.0		
Water		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	4		
Chromium	ppm	ASTM D5185m	>4	0		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m	_	۰ <1		
Silver	ppm	ASTM D5185m	>5	0		
Aluminum	ppm	ASTM D5185m	>12	<1		
Lead	ppm	ASTM D5185m	>12	6		
Copper	ppm	ASTM D5185m	>70	0		
Tin		ASTM D5185m	>15	۰ <1		
Vanadium	ppm	ASTM D5185m	>15	<1		
Cadmium	ppm	ASTM D5185m		< I 0		
	ppm			-		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	13		
Barium	ppm	ASTM D5185m	10	0		
Vlahybdanum						
Norybaenam	ppm	ASTM D5185m	100	52		
	ppm ppm	ASTM D5185m ASTM D5185m	100	52 <1		
Vanganese			100 450	-		
Manganese Magnesium	ppm	ASTM D5185m		<1		
Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m	450	<1 777		
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	450 3000	<1 777 1327		
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	450 3000 1150	<1 777 1327 1006		
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	450 3000 1150 1350	<1 777 1327 1006 1239		  
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	450 3000 1150 1350 4250 limit/base >25	<1 777 1327 1006 1239 3692 current 3	   	   
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	450 3000 1150 1350 4250 limit/base	<1 777 1327 1006 1239 3692 current	    history1	    history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	450 3000 1150 1350 4250 limit/base >25	<1 777 1327 1006 1239 3692 current 3	    history1 	    history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m ASTM D5185m	450 3000 1150 1350 4250 limit/base >25 >216	<1 777 1327 1006 1239 3692 <u>current</u> 3 2	    history1 	    history2 
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	450 3000 1150 1350 4250 limit/base >25 >216 >20	<1 777 1327 1006 1239 3692 <u>current</u> 3 2 2 <1	    history1  	    history2 
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	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	450 3000 1150 1350 4250 limit/base >25 >216 >20	<1 777 1327 1006 1239 3692 current 3 2 <1 current	    history1   history1	<ul> <li></li> <li></li> <li></li> <li>history2</li> <li></li> <li></li> <li>history2</li> </ul>
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm	ASTM D5185m ASTM D5185m	450 3000 1150 1350 4250 limit/base >25 >216 >20 limit/base	<1 777 1327 1006 1239 3692 current 3 2 <1 2 <1 current 0.1	   history1   history1  history1	<ul> <li></li> <li></li> <li></li> <li>history2</li> <li></li> <li></li> <li>history2</li> <li></li> <li></li> </ul>
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	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 ASTM D5185m ASTM D5185m *ASTM D7844	450 3000 1150 1350 4250 imit/base >25 >216 >20 imit/base	<1 777 1327 1006 1239 3692 current 3 2 <1 2 <1 current 0.1 7.3	    history1   history1	<ul> <li></li> <li></li> <li></li> <li></li> <li>history2</li> <li></li> <li></li> <li>history2</li> <li></li> <li></li> </ul>
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	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 ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624	450 3000 1150 1350 4250 imit/base >25 >216 >20 imit/base	<1 777 1327 1006 1239 3692 <u>current</u> 3 2 <1 2 <1 0.1 7.3 19.2	    history1   history1  history1	    history2   history2



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Contact/Location: Service Manager - ADESLA