

## **OIL ANALYSIS REPORT**

Sample Rating Trend

WEAR

Area [JCBCP] 1862 Component Diesel Engine Fluid {not provided} (--- GAL)

### DIAGNOSIS

#### A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### 🔺 Wear

Cylinder, crank, or cam shaft wear is indicated.

#### Contamination

There is no indication of any contamination in the oil.

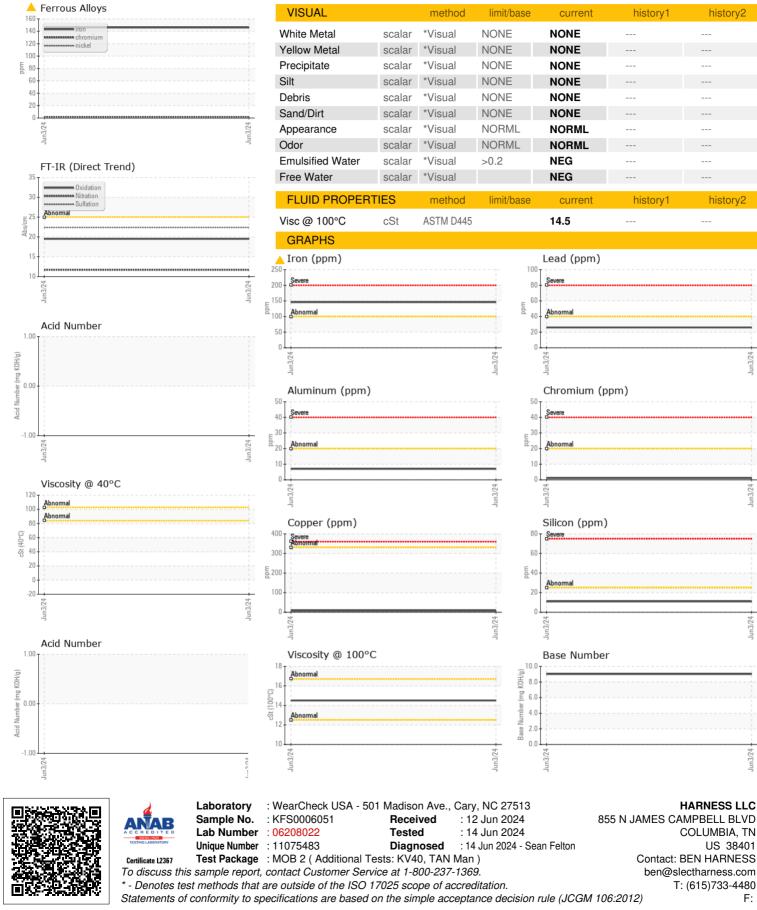
#### Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0006051		
Sample Date		Client Info		03 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	nnm	ASTM D5185m	>100	<u>▲</u> 146		
Chromium	ppm ppm	ASTM D5185m	>20	140		
Nickel		ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m	24 	0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm ppm	ASTM D5185m	>3 >20	7		
Lead		ASTM D5185m	>20 >40	26		
Copper	ppm	ASTM D5185m	>40 >330	8		
Tin	ppm	ASTM D5185m	>330	2		
Vanadium	ppm ppm	ASTM D5185m	>15	2 <1		
Cadmium		ASTM D5185m		0		
	ppm			U		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		52		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		71		
Manganese	ppm	ASTM D5185m		2		
Magnesium		ASTM D5185m ASTM D5185m		2 1085		
Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		2 1085 1594		
Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		2 1085 1594 1152		
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		2 1085 1594 1152 1528		
Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		2 1085 1594 1152		
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	2 1085 1594 1152 1528	  	 
Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25	2 1085 1594 1152 1528 3891	  	
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method		2 1085 1594 1152 1528 3891 current	    history1	   history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	2 1085 1594 1152 1528 3891 current 11	    history1	   history2
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 ASTM D5185m	>25	2 1085 1594 1152 1528 3891 current 11 3	    history1 	   history2 
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	2 1085 1594 1152 1528 3891 current 11 3 2	   history1  	  history2 
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 limit/base >3	2 1085 1594 1152 1528 3891 current 11 3 2 current	   history1   history1	  history2   history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	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	>25 >20 limit/base >3	2 1085 1594 1152 1528 3891 current 11 3 2 current 0.2	   history1   history1	  history2   history2
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 D7844	>25 >20 limit/base >3 >20	2 1085 1594 1152 1528 3891 current 11 3 2 current 0.2 11.7	    history1   history1	  history2   history2
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 D7844 *ASTM D7844 *ASTM D7845	>25 >20 limit/base >3 >20 >30	2 1085 1594 1152 1528 3891 current 11 3 2 current 0.2 11.7 22.4	    history1   history1  history1	  history2  history2  history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	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 D7844 *ASTM D7624 *ASTM D7624 method	>25 >20 limit/base >3 >20 >30 limit/base	2 1085 1594 1152 1528 3891 current 11 3 2 current 0.2 11.7 22.4 current	    history1   history1   history1	   history2   history2   history2  



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Contact/Location: BEN HARNESS - HARCOLTN