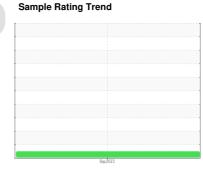


# **OIL ANALYSIS REPORT**

Machine Id 2707 Component **Diesel Engine** 

**DIESEL ENGINE OIL SAE 40 (--- QTS)** 





### 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. Please specify the component make and model with your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

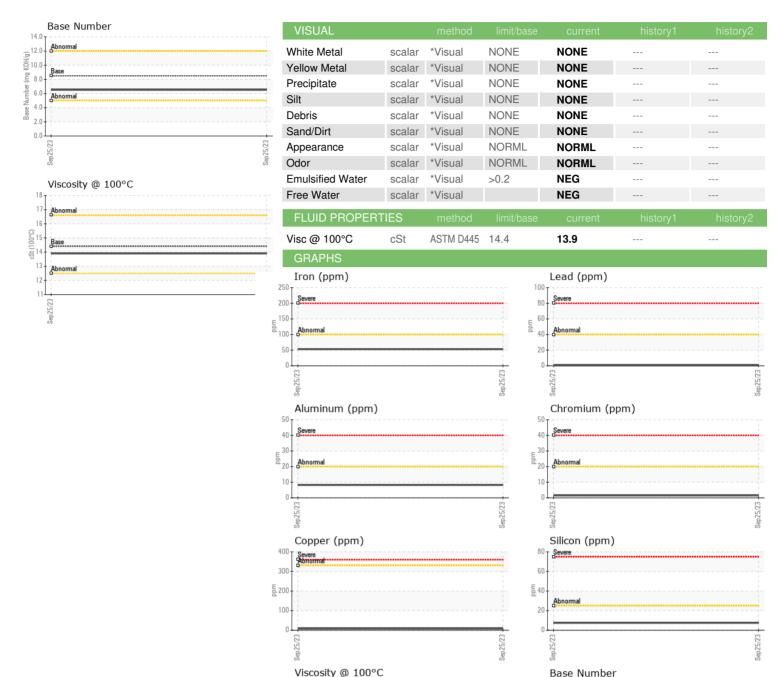
#### **Fluid Condition**

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

			•	Sep 2023		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RW0004849		
Sample Date		Client Info		25 Sep 2023		
Machine Age	hrs	Client Info		3700		
Oil Age	hrs	Client Info		270		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	53		
	ppm	ASTM D5185m	>20	2		
	ppm	ASTM D5185m	>4	<1		
	ppm	ASTM D5105m	~ T	<1		
	ppm	ASTM D5105m	>3	0		
	ppm	ASTM D5185m	>20	8		
		ASTM D5185m	>40	o <1		
-	ppm		>330	8		
	ppm	ASTM D5185m		0		
	ppm		>15	-		
	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0 <1		
			limit/base	•		
Cadmium  ADDITIVES		ASTM D5185m	limit/base	<1 current		
Cadmium ADDITIVES Boron	ppm	ASTM D5185m method		<1 current	history1	history2
Cadmium  ADDITIVES  Boron  Barium	ppm	ASTM D5185m method ASTM D5185m	250	<1 current	history1	history2
Cadmium  ADDITIVES  Boron  Barium  Molybdenum	ppm ppm ppm	ASTM D5185m  method  ASTM D5185m  ASTM D5185m	250 10	<1 current 21 3	history1	history2
Cadmium  ADDITIVES  Boron  Barium  Molybdenum  Manganese	ppm ppm ppm ppm	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m	250 10	<1 current 21 3 35	history1 	history2
Cadmium  ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium	ppm ppm ppm ppm ppm	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D5185m	250 10 100	<1 current 21 3 35 <1	history1	history2
Cadmium  ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium	ppm ppm ppm ppm ppm	ASTM D5185m  method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D5185m	250 10 100 450	<1 current 21 3 35 <1 492	 history1   	history2
Cadmium  ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m  method  ASTM D5185m	250 10 100 450 3000	<1 current 21 3 35 <1 492 1385	history1	history2
Cadmium  ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  method  ASTM D5185m	250 10 100 450 3000 1150	<1 current 21 3 35 <1 492 1385 900	history1	history2
Cadmium  ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc	ppm	ASTM D5185m  method  ASTM D5185m	250 10 100 450 3000 1150 1350	<1 current 21 3 35 <1 492 1385 900 1111	history1	history2
Cadmium  ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  CONTAMINANTS	ppm	ASTM D5185m  method  ASTM D5185m	250 10 100 450 3000 1150 1350 4250	<1 current 21 3 35 <1 492 1385 900 1111 3528	history1	history2
Cadmium  ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  CONTAMINANTS  Silicon	ppm	ASTM D5185m  method  ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base	<1 current 21 3 35 <1 492 1385 900 1111 3528 current	history1 history1	history2 history2
Cadmium  ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  CONTAMINANTS  Silicon  Sodium	ppm	ASTM D5185m  method  ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25	<1 current 21 3 35 <1 492 1385 900 1111 3528 current 8	history1 history1	history2 history2
Cadmium  ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  CONTAMINANTS  Silicon  Sodium	ppm	ASTM D5185m  method  ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25 >216	<1 current 21 3 35 <1 492 1385 900 1111 3528 current 8 2	history1 history1 history1	history2 history2 history2
Cadmium  ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  CONTAMINANTS  Silicon  Sodium  Potassium  INFRA-RED	ppm	ASTM D5185m  method  ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25 >216 >20	<1 current 21 3 35 <1 492 1385 900 1111 3528 current 8 2 13	history1 history1 history1	history2 history2 history2
Cadmium  ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  CONTAMINANTS  Silicon  Sodium  Potassium  INFRA-RED  Soot %	ppm	ASTM D5185m  method  ASTM D5185m  Method	250 10 100 450 3000 1150 1350 4250 limit/base >25 >216 >20 limit/base	<1 current  21 3 35 <1 492 1385 900 1111 3528 current  8 2 13 current	history1 history1 history1 history1	history2 history2 history2 history2
Cadmium  ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  CONTAMINANTS  Silicon  Sodium  Potassium  INFRA-RED  Soot %  Nitration	ppm	ASTM D5185m  method  ASTM D5185m  method  ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25 >216 >20 limit/base	<1 current  21 3 35 <1 492 1385 900 1111 3528 current  8 2 13 current 1.3	history1 history1 history1 history1	history2 history2 history2 history2
Cadmium  ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  CONTAMINANTS  Silicon  Sodium  Potassium  INFRA-RED  Soot %  Nitration	ppm	ASTM D5185m  method  ASTM D5185m  Method  ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25 >216 >20 limit/base	<1 current 21 3 35 <1 492 1385 900 1111 3528 current 8 2 13 current 1.3 13.3	history1 history1 history1 history1	history2 history2 history2 history2
Cadmium  ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  CONTAMINANTS  Silicon  Sodium  Potassium  INFRA-RED  Soot %  Nitration  Sulfation  FLUID DEGRADAT	ppm	ASTM D5185m  method  ASTM D5185m  Method  *ASTM D5185m  *ASTM D5185m  ASTM D7844  *ASTM D7624  *ASTM D7415	250 10 100 450 3000 1150 1350 4250 limit/base >25 >216 >20 limit/base >3 >20 >30	<1 current 21 3 35 <1 492 1385 900 1111 3528 current 8 2 13 current 1.3 13.3 26.4	history1 history1 history1 history1	history2 history2 history2 history2



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: 05999204

1000

: RW0004849 : 10727564 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Nov 2023

Diagnosed : 07 Nov 2023 : Wes Davis Diagnostician

(mg KOH/g)

0.0

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) **NEWKIRK ELECTRIC** 

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Contact: ERIC KING ewking@newkirk-electric.com

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