

# **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL



Machine Id **1017** Component **Diesel Engine** 

**DIESEL ENGINE OIL SAE 15W40 (--- GAL)** 

## Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

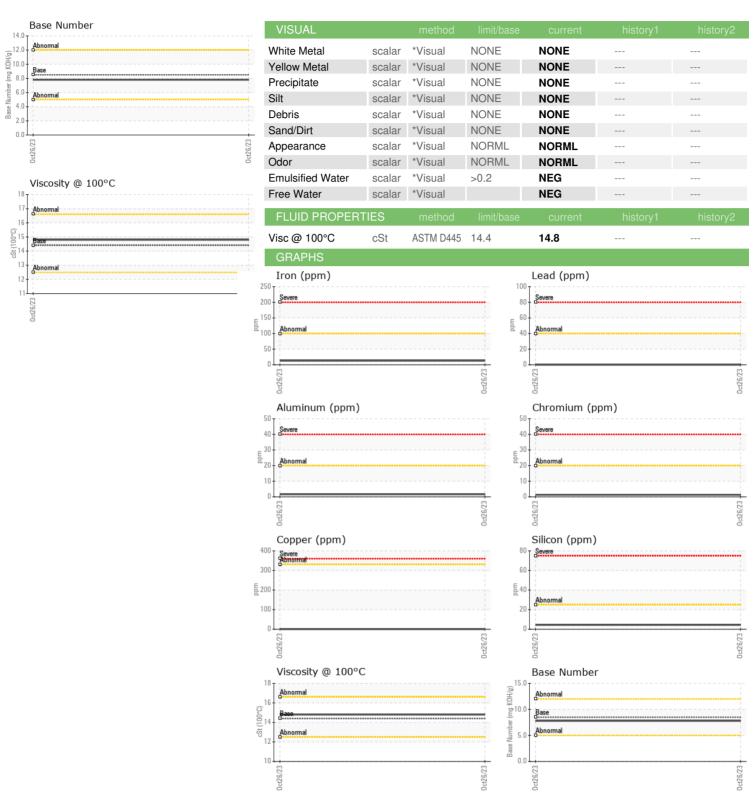
## **Fluid Condition**

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

				Oct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0855920		
Sample Date		Client Info		26 Oct 2023		
Machine Age	mls	Client Info		783412		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	13		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>4	0		
ritanium		ASTM D5185m	77	0		
Silver	ppm	ASTM D5185m	>3	0		
Silver Aluminum	ppm	ASTM D5185m	>3	2		
	ppm		>40	0		
_ead	ppm	ASTM D5185m		-		
Copper	ppm	ASTM D5185m		<1		
Γin 	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	3		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	100	61		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	450	964		
Calcium	ppm	ASTM D5185m	3000	1155		
Phosphorus	ppm	ACTM DE10E++	4.4.50			
•		ASTM D5185m	1150	1090		
Zinc		ASTM D5185m	1350	1090 1359		
	ppm					
	ppm	ASTM D5185m	1350	1359		
Sulfur	ppm	ASTM D5185m ASTM D5185m	1350 4250	1359 3042		
Sulfur CONTAMINANTS Silicon	ppm ppm	ASTM D5185m ASTM D5185m method	1350 4250 limit/base	1359 3042 current	  history1	history2
Sulfur CONTAMINANTS Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	1350 4250 limit/base >25	1359 3042 current 4	history1	history2
Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	1350 4250 limit/base >25 >158	1359 3042 current 4 2	history1	 history2 
Sulfur  CONTAMINANTS Silicon Sodium Potassium  INFRA-RED	ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	1350 4250 limit/base >25 >158 >20	1359 3042 current 4 2 6	 history1 	history2
Sulfur  CONTAMINANTS Silicon Sodium Potassium  INFRA-RED Soot %	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	1350 4250 limit/base >25 >158 >20 limit/base >3	1359 3042 current 4 2 6	history1	history2
Sulfur  CONTAMINANTS Silicon Sodium Potassium  INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	1350 4250 limit/base >25 >158 >20 limit/base >3	1359 3042 current 4 2 6 current 0.9	history1 history1 history1	history2 history2
Sulfur  CONTAMINANTS Silicon Sodium Potassium  INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm Abs/.1mm	ASTM D5185m  Method  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D5185m  method  *ASTM D7844  *ASTM D7624	1350 4250 limit/base >25 >158 >20 limit/base >3 >20	1359 3042 current 4 2 6 current 0.9 9.6	history1 history1 history1	history2 history2 history2
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm Abs/.1mm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	1350 4250 limit/base >25 >158 >20 limit/base >3 >20 >30	1359 3042 current 4 2 6 current 0.9 9.6 20.7	history1 history1 history1	history2 history2 history2



# **OIL ANALYSIS REPORT**





Certificate L2367

Laboratory Sample No. Lab Number

**Unique Number** 

: 06010634 : 10749778

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0855920 Received

: 17 Nov 2023 Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 19 Nov 2023 Diagnostician : Wes Davis

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.

**GO DURHAM - RAPT** 1903 FAYETTEVILLE ST

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Contact: Robert Iosiniecki Robert.losiniecki@ratpdev.com

T: F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)