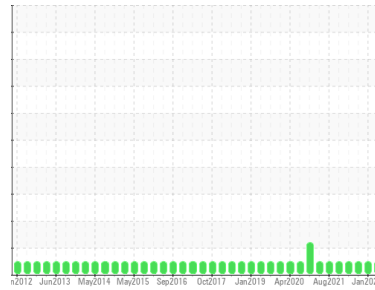




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**ADVANCE MIXER 165**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESSEL ENGINE OIL SAE 15W40 (10 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0802311</b>	WC0661752	WC0721495
Sample Date	Client Info		<b>21 Apr 2023</b>	05 Jan 2023	09 Sep 2022
Machine Age	hrs	Client Info	<b>40000</b>	40000	40000
Oil Age	hrs	Client Info	<b>500</b>	500	500
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >90	<b>11</b>	15	36
Chromium	ppm	ASTM D5185m >20	<b>2</b>	2	3
Nickel	ppm	ASTM D5185m >2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m >2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	2	<1
Lead	ppm	ASTM D5185m >40	<b>2</b>	2	12
Copper	ppm	ASTM D5185m >330	<b>0</b>	<1	1
Tin	ppm	ASTM D5185m >15	<b>1</b>	1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	<b>15</b>	9	8
Barium	ppm	ASTM D5185m 10	<b>0</b>	3	0
Molybdenum	ppm	ASTM D5185m 100	<b>70</b>	58	67
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 450	<b>918</b>	881	967
Calcium	ppm	ASTM D5185m 3000	<b>1321</b>	1060	1196
Phosphorus	ppm	ASTM D5185m 1150	<b>1148</b>	995	1093
Zinc	ppm	ASTM D5185m 1350	<b>1456</b>	1219	1308
Sulfur	ppm	ASTM D5185m 4250	<b>4633</b>	3553	3557

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>4</b>	3	3
Sodium	ppm	ASTM D5185m >158	<b>2</b>	2	<1
Potassium	ppm	ASTM D5185m >20	<b>1</b>	<1	<1

## INFRA-RED

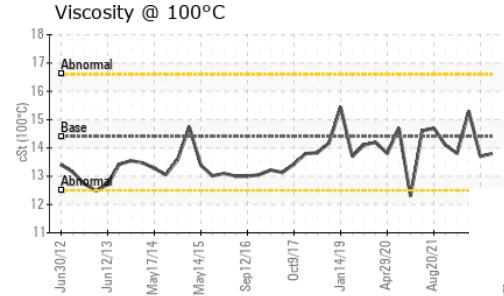
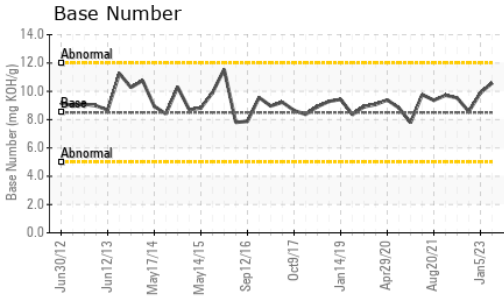
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >6	<b>1.5</b>	2.1	4
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.8</b>	9.6	12.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>20.4</b>	22.0	29.0

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>13.8</b>	15.1	18.4
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	<b>10.59</b>	9.89	8.57



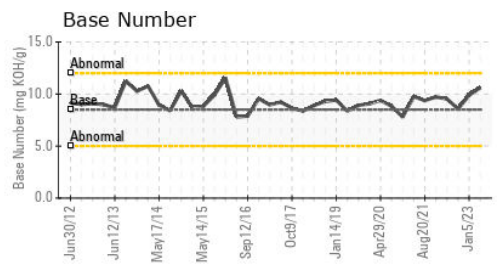
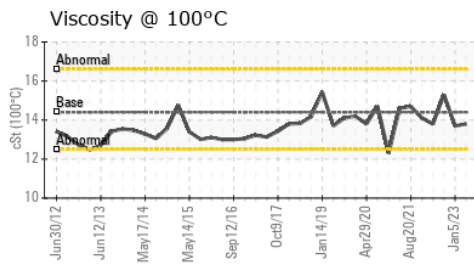
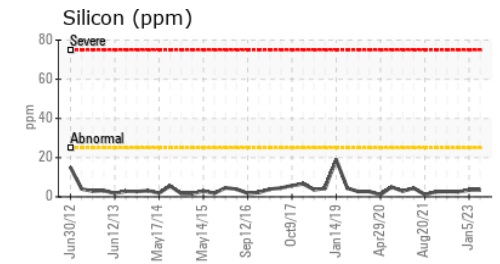
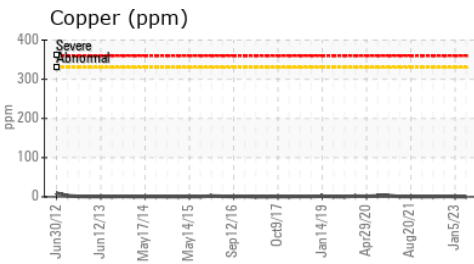
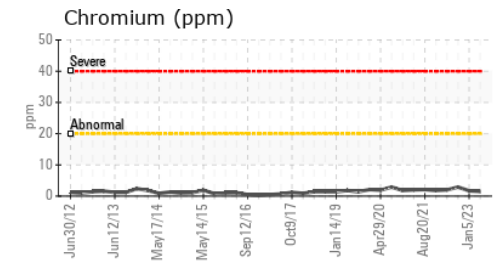
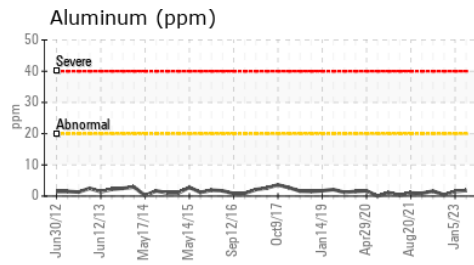
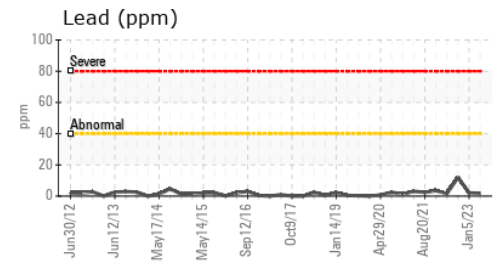
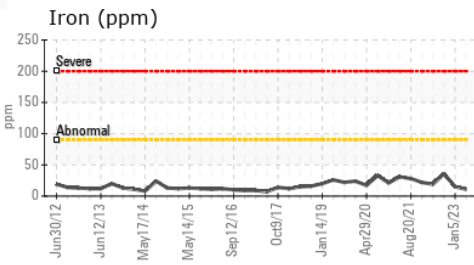
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.8</b>	13.7	15.3

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0802311 **Received** : 12 May 2023  
**Lab Number** : 05846428 **Diagnosed** : 15 May 2023  
**Unique Number** : 10470535 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

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Certificate L2367  
 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)