



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**[W74820]**  
 Machine Id  
**DGHD-7082039**

Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### Wear

Metal levels are typical for a new component breaking in.

### 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>WC0753215</b>	---	---
Sample Date	Client Info	<b>14 Dec 2022</b>	---	---
Machine Age	hrs Client Info	<b>374</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## CONTAMINATION

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

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	<b>2</b>	---	---
Chromium	ppm ASTM D5185m >20	<b>0</b>	---	---
Nickel	ppm ASTM D5185m >4	<b>0</b>	---	---
Titanium	ppm ASTM D5185m	<b>0</b>	---	---
Silver	ppm ASTM D5185m >3	<b>0</b>	---	---
Aluminum	ppm ASTM D5185m >20	<b>&lt;1</b>	---	---
Lead	ppm ASTM D5185m >40	<b>2</b>	---	---
Copper	ppm ASTM D5185m >330	<b>4</b>	---	---
Tin	ppm ASTM D5185m >15	<b>&lt;1</b>	---	---
Vanadium	ppm ASTM D5185m	<b>0</b>	---	---
Cadmium	ppm ASTM D5185m	<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 250	<b>12</b>	---	---
Barium	ppm ASTM D5185m 10	<b>0</b>	---	---
Molybdenum	ppm ASTM D5185m 100	<b>14</b>	---	---
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Magnesium	ppm ASTM D5185m 450	<b>74</b>	---	---
Calcium	ppm ASTM D5185m 3000	<b>2280</b>	---	---
Phosphorus	ppm ASTM D5185m 1150	<b>898</b>	---	---
Zinc	ppm ASTM D5185m 1350	<b>1129</b>	---	---
Sulfur	ppm ASTM D5185m 4250	<b>4358</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>13</b>	---	---
Sodium	ppm ASTM D5185m >158	<b>&lt;1</b>	---	---
Potassium	ppm ASTM D5185m >20	<b>1</b>	---	---

## INFRA-RED

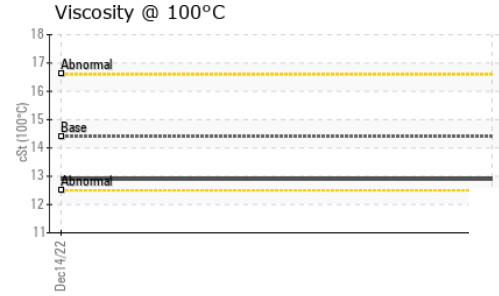
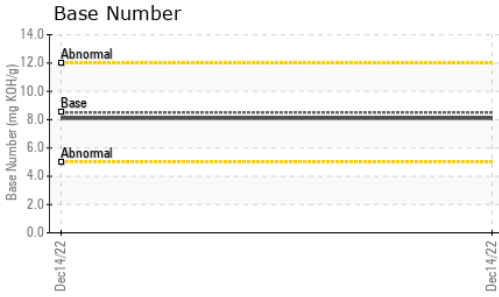
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.1</b>	---	---
Nitration	Abs/cm *ASTM D7624 >20	<b>6.6</b>	---	---
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>16.1</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>10.5</b>	---	---
Base Number (BN)	mg KOH/g ASTM D2896 8.5	<b>8.1</b>	---	---



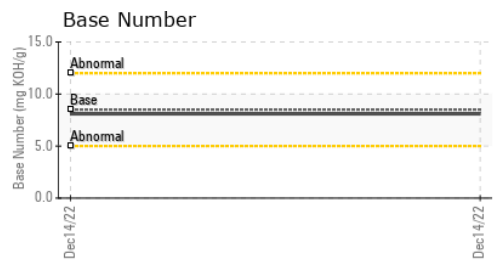
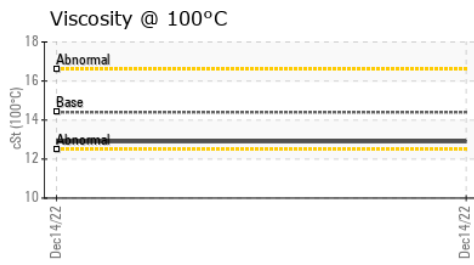
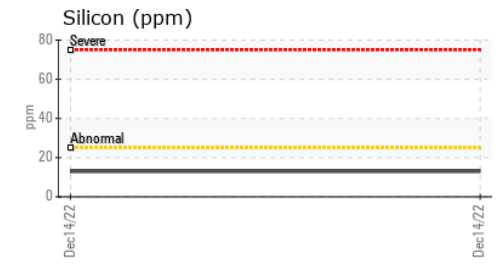
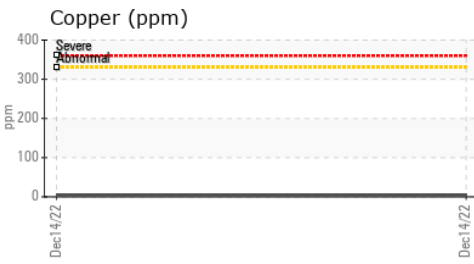
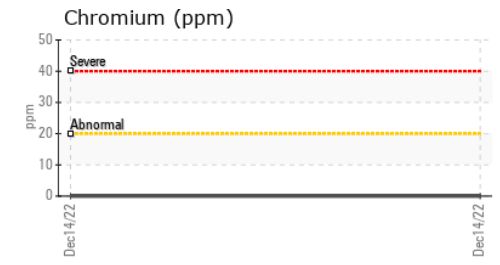
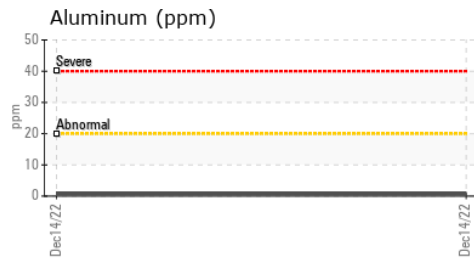
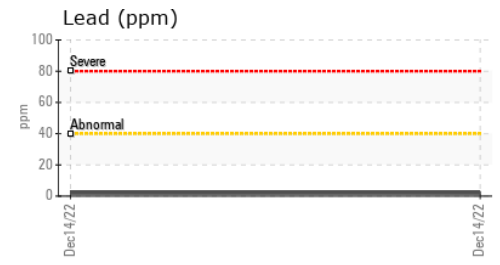
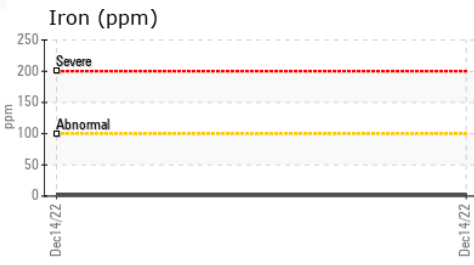
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	<b>12.9</b>	---

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0753215     **Received** : 24 Feb 2023  
**Lab Number** : **05775731**     **Diagnosed** : 27 Feb 2023  
**Unique Number** : 10350348     **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

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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)