



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**WEST MIXER**  
 Component  
**Gearbox**  
 Fluid  
**GEAR OIL ISO 220 (--- GAL)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL ISO 220. Please confirm.

NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0942394</b>	---	---
Sample Date	Client Info			<b>20 Apr 2024</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed	Client Info			<b>N/A</b>	---	---
Sample Status				<b>ATTENTION</b>	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	<b>NEG</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		<b>16</b>	---	---
Iron	ppm	ASTM D5185m	>200	<b>6</b>	---	---
Chromium	ppm	ASTM D5185m	>15	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>15	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	---	---
Lead	ppm	ASTM D5185m	>100	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185m	>200	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185m	>25	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---

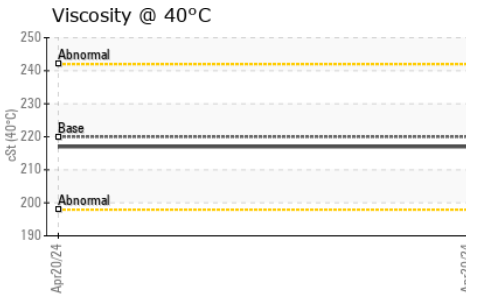
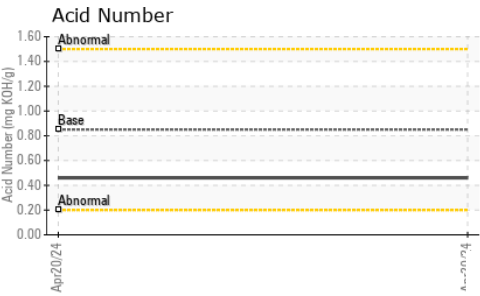
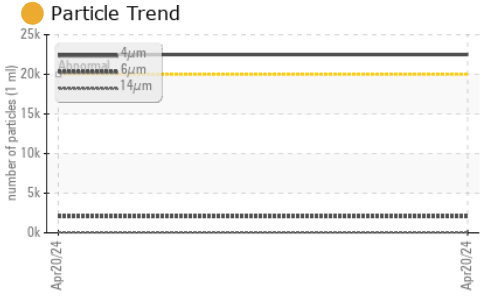
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	<b>17</b>	---	---
Barium	ppm	ASTM D5185m	15	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	15	<b>1</b>	---	---
Manganese	ppm	ASTM D5185m		<b>0</b>	---	---
Magnesium	ppm	ASTM D5185m	50	<b>6</b>	---	---
Calcium	ppm	ASTM D5185m	50	<b>84</b>	---	---
Phosphorus	ppm	ASTM D5185m	350	<b>235</b>	---	---
Zinc	ppm	ASTM D5185m	100	<b>2</b>	---	---
Sulfur	ppm	ASTM D5185m	12500	<b>8891</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>9</b>	---	---
Sodium	ppm	ASTM D5185m		<b>0</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>22492</b>	---	---
Particles >6µm		ASTM D7647	>5000	<b>2059</b>	---	---
Particles >14µm		ASTM D7647	>640	<b>63</b>	---	---
Particles >21µm		ASTM D7647	>160	<b>13</b>	---	---
Particles >38µm		ASTM D7647	>40	<b>0</b>	---	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>22/18/13</b>	---	---



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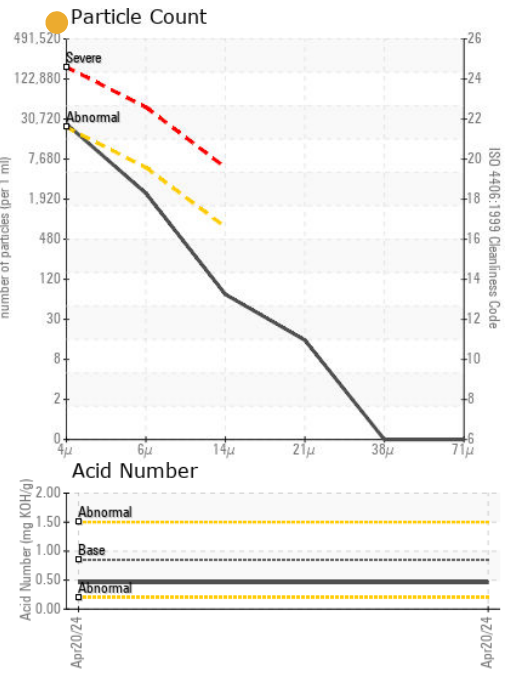
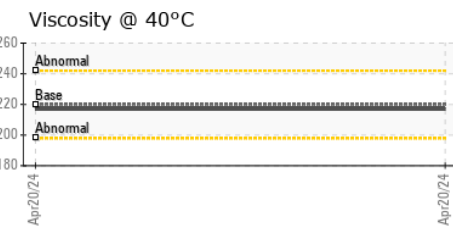
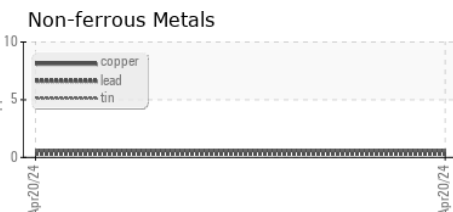
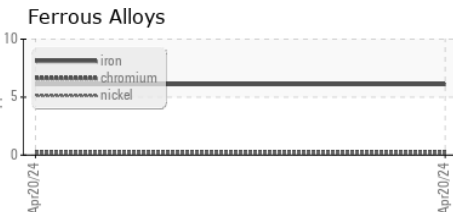
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	<b>0.46</b>	---	---

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	<b>217</b>	---	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	
Bottom				no image	no image	

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0942394      **Received** : 15 May 2024  
**Lab Number** : **06180061**      **Tested** : 16 May 2024  
**Unique Number** : 11031387      **Diagnosed** : 16 May 2024 - Wes Davis  
**Test Package** : IND 2 ( Additional Tests: PQ, PrtCount )

**DODGE INDUSTRIAL**  
 6040 PONDERS CT  
 GREENVILLE, SC  
 US 29615  
 Contact: BRANDON LEROY  
 bleroy@dodgeindustrial.com  
 T: 1(864)382-2744  
 F:

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)