



# OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL

Area  
**[DIXON CUSTOM]**  
 Machine Id  
**JCB 505-20 2899695**  
 Component  
**Diesel Engine**  
 Fluid  
**NOT GIVEN (--- QTS)**



## DIAGNOSIS

### ▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### ▲ Wear

The chromium level is abnormal. All other metal levels are typical for a new component breaking in.

### Contamination

Sodium and/or potassium levels are high. Test for glycol is negative.

### ▲ 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>JCB000290</b>	---	---
Sample Date	Client Info		<b>17 Apr 2023</b>	---	---
Machine Age	hrs	Client Info	<b>182</b>	---	---
Oil Age	hrs	Client Info	<b>182</b>	---	---
Oil Changed	Client Info		<b>Not Chngd</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	---	---
Water	WC Method	>0.2	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >125	<b>120</b>	---	---
Chromium	ppm	ASTM D5185m >5	<b>▲ 32</b>	---	---
Nickel	ppm	ASTM D5185m >4	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >25	<b>38</b>	---	---
Lead	ppm	ASTM D5185m >15	<b>0</b>	---	---
Copper	ppm	ASTM D5185m >125	<b>23</b>	---	---
Tin	ppm	ASTM D5185m >4	<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	<b>103</b>	---	---
Barium	ppm	ASTM D5185m	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>4</b>	---	---
Manganese	ppm	ASTM D5185m	<b>12</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>77</b>	---	---
Calcium	ppm	ASTM D5185m	<b>1947</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>986</b>	---	---
Zinc	ppm	ASTM D5185m	<b>1142</b>	---	---
Sulfur	ppm	ASTM D5185m	<b>5952</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>21</b>	---	---
Sodium	ppm	ASTM D5185m	<b>▲ 156</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>17</b>	---	---
Glycol	%	*ASTM D2982	<b>NEG</b>	---	---

## INFRA-RED

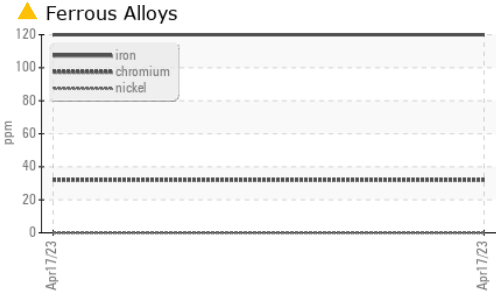
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.1</b>	---	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>7.4</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>20.0</b>	---	---

## FLUID DEGRADATION

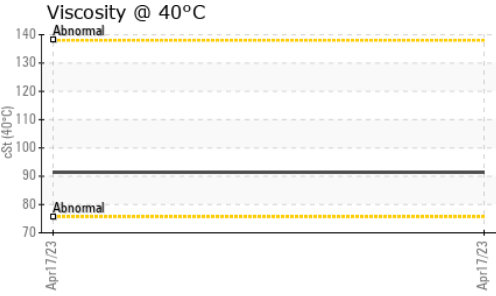
	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>14.9</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>8.1</b>	---	---



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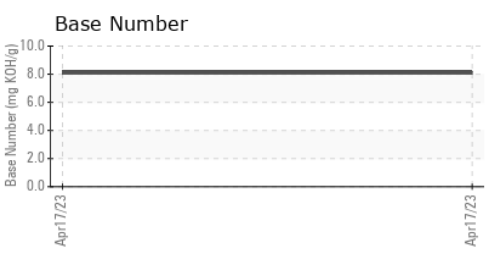
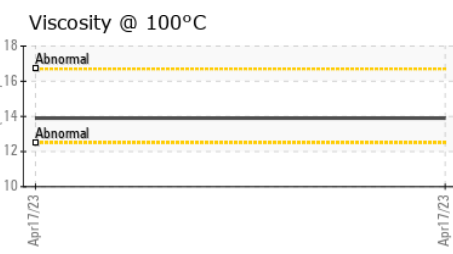
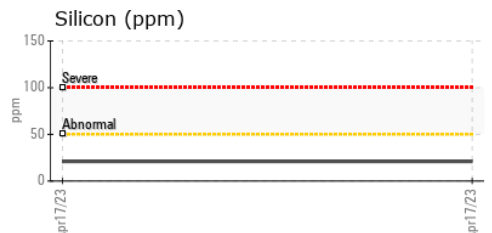
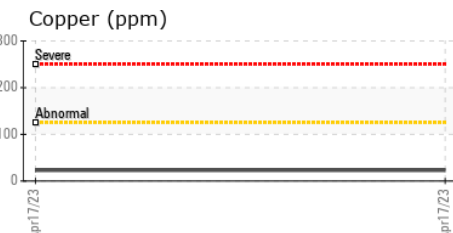
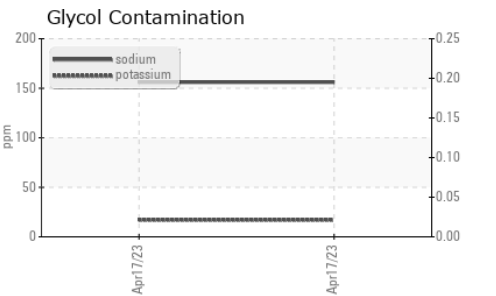
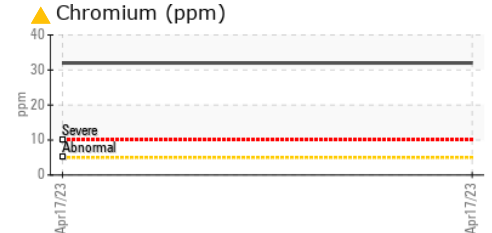
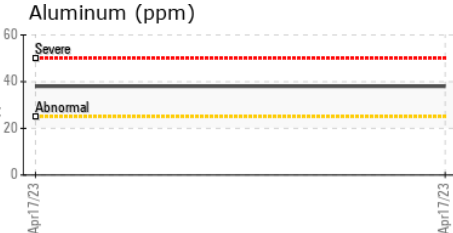
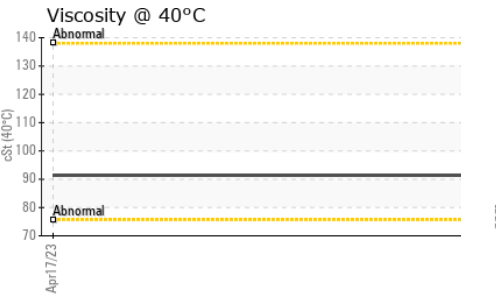
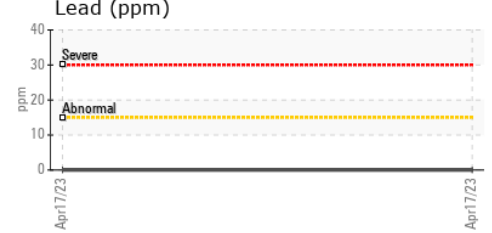
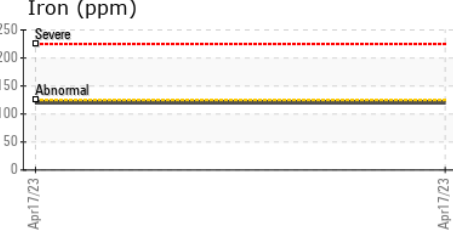
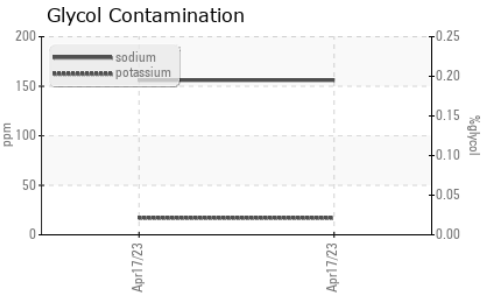


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	---	---
Precipitate	scalar	*Visual	NONE	---	---
Silt	scalar	*Visual	NONE	---	---
Debris	scalar	*Visual	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	---	---
Appearance	scalar	*Visual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



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	91.4	---	---
Visc @ 100°C	cSt	ASTM D445	13.9	---	---
Viscosity Index (VI)	Scale	ASTM D2270	155	---	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JCB000290 **Received** : 25 Apr 2023  
**Lab Number** : 05828820 **Diagnosed** : 27 Apr 2023  
**Unique Number** : 10442313 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 1 ( Additional Tests: Glycol, KV40, TBN, VI )

**BRIGGS JCB - JACKSONVILLE**  
 2525 PHILLIPS HWY  
 JACKSONVILLE, FL  
 US 32207  
 Contact: KEVIN PARRISH  
 KEVIN.PARRISH@BRIGGSEQUIPMENT.COM

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)