



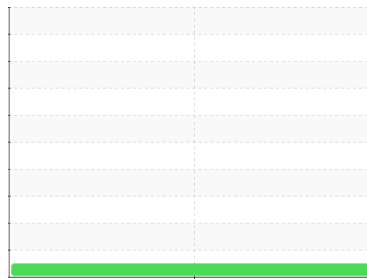
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**JCB 409 JCB40902KP3056364**  
 Component  
**Diesel Engine**  
 Fluid  
**NOT GIVEN (12 LTR)**



## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 10W30 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

### Wear

Metal levels are typical for a components first oil change.

### Contamination

Fuel content negligible. 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>JCB005929</b>	---	---
Sample Date	Client Info		<b>22 Sep 2023</b>	---	---
Machine Age	hrs	Client Info	<b>24</b>	---	---
Oil Age	hrs	Client Info	<b>24</b>	---	---
Oil Changed	Client Info		<b>Not Chngd</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >125	<b>12</b>	---	---
Chromium	ppm	ASTM D5185(m) >5	<b>3</b>	---	---
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m) >3	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m) >25	<b>2</b>	---	---
Lead	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m) >125	<b>8</b>	---	---
Tin	ppm	ASTM D5185(m) >4	<b>0</b>	---	---
Antimony	ppm	ASTM D5185(m)	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>6</b>	---	---
Barium	ppm	ASTM D5185(m)	<b>5</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185(m)	<b>6</b>	---	---
Magnesium	ppm	ASTM D5185(m)	<b>8</b>	---	---
Calcium	ppm	ASTM D5185(m)	<b>2284</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	<b>902</b>	---	---
Zinc	ppm	ASTM D5185(m)	<b>998</b>	---	---
Sulfur	ppm	ASTM D5185(m)	<b>3082</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

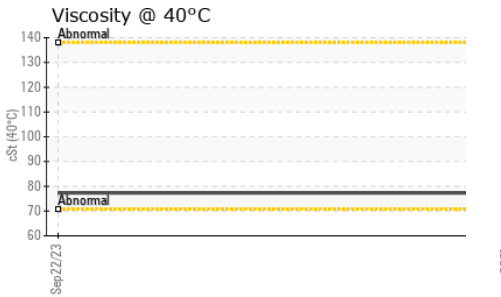
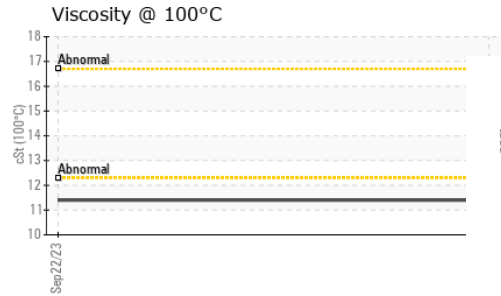
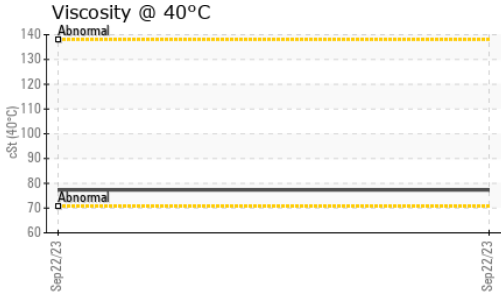
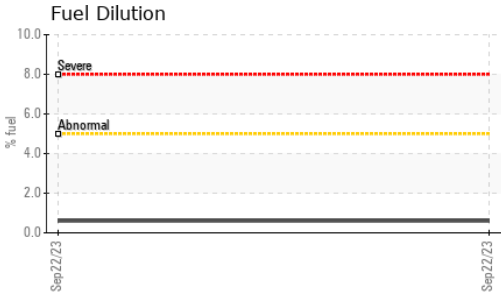
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	<b>12</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>4</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Fuel	%	ASTM D7593* >5	<b>0.6</b>	---	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624* >20	<b>5.3</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>15.3</b>	---	---



# OIL ANALYSIS REPORT

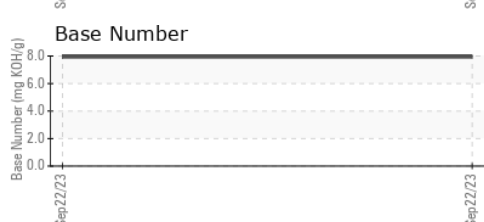
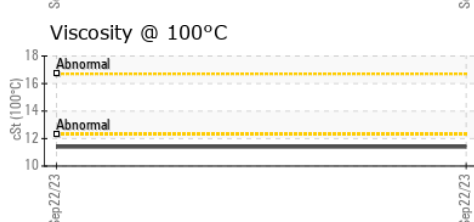
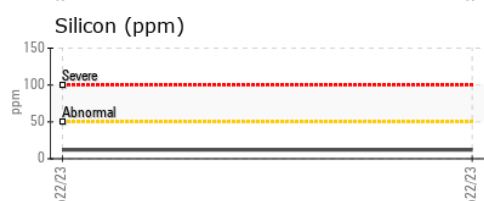
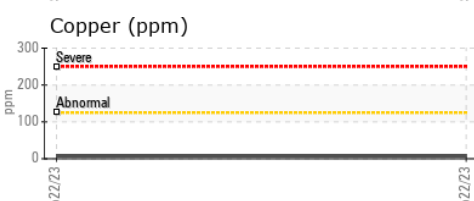
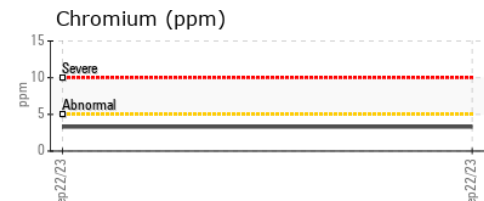
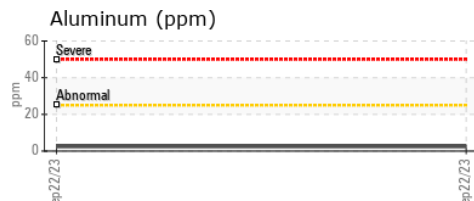
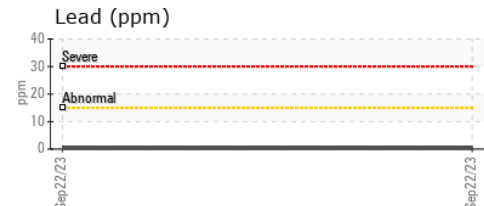
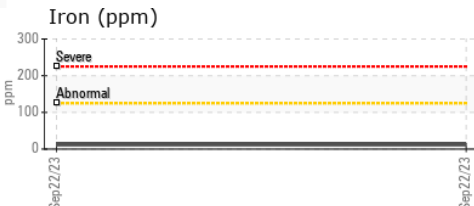


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>8.8</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		<b>7.94</b>	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>VLITE</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 D7279(m)		<b>77.3</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		<b>11.4</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		<b>138</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 HUB INTERNATIONAL EQUIPMENT LTD - LINDSAY  
**Sample No.** : JCB005929 **Received** : 16 Oct 2023 12 GOLDEN MILE RD  
**Lab Number** : **02589135** **Diagnosed** : 18 Oct 2023 LINDSAY, ON  
**Unique Number** : 5658201 **Diagnostician** : Kevin Marson CA K9V 4R4  
**Test Package** : MOB 1 ( Additional Tests: BottomAnalysis, FILTERPATCH, FuelDilution, KV40, PercentFuel, TBN, VI, Vis Contact: Manager  
 To discuss this sample report, contact Customer Service at 1-800-268-2131. partsofficel@hubinternational.com  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T:  
 Validity of results and interpretation are based on the sample and information as supplied. F: (705)324-3505