

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
JCB 8330 1419
Component
Diesel Engine
Fluid
JCB 5W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you monitor for an abnormal oil pressure drop and noise. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Lead ppm levels are severe. Bearing wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PC0075845	---	---
Sample Date	Client Info		10 Oct 2023	---	---
Machine Age	hrs	Client Info	3088	---	---
Oil Age	hrs	Client Info	500	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			SEVERE	---	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>125	106	---
Chromium	ppm	ASTM D5185(m)	>5	2	---
Nickel	ppm	ASTM D5185(m)	>4	<1	---
Titanium	ppm	ASTM D5185(m)		0	---
Silver	ppm	ASTM D5185(m)	>3	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	2	---
Lead	ppm	ASTM D5185(m)	>15	38	---
Copper	ppm	ASTM D5185(m)	>125	8	---
Tin	ppm	ASTM D5185(m)	>4	2	---
Antimony	ppm	ASTM D5185(m)		0	---
Vanadium	ppm	ASTM D5185(m)		0	---
Beryllium	ppm	ASTM D5185(m)		0	---
Cadmium	ppm	ASTM D5185(m)		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		12	---
Barium	ppm	ASTM D5185(m)		<1	---
Molybdenum	ppm	ASTM D5185(m)		15	---
Manganese	ppm	ASTM D5185(m)		<1	---
Magnesium	ppm	ASTM D5185(m)		873	---
Calcium	ppm	ASTM D5185(m)		1375	---
Phosphorus	ppm	ASTM D5185(m)		1083	---
Zinc	ppm	ASTM D5185(m)		1301	---
Sulfur	ppm	ASTM D5185(m)		2958	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	8	---
Sodium	ppm	ASTM D5185(m)		6	---
Potassium	ppm	ASTM D5185(m)	>20	2	---

INFRA-RED

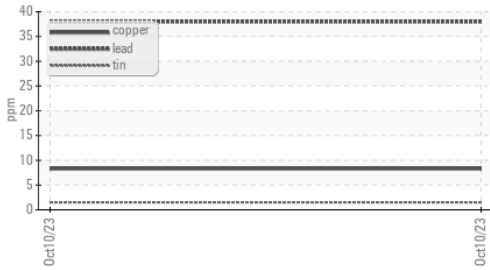
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1.3	---
Nitration	Abs/cm	ASTM D7624*	>20	10.9	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.5	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.2	---

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Non-ferrous Metals

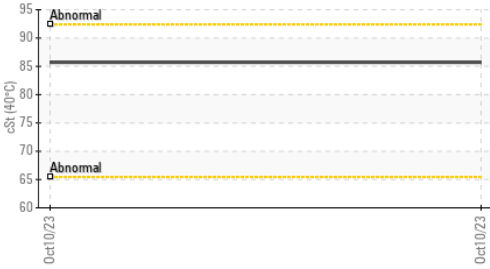


VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	---
Free Water	scalar	Visual*		NEG	---

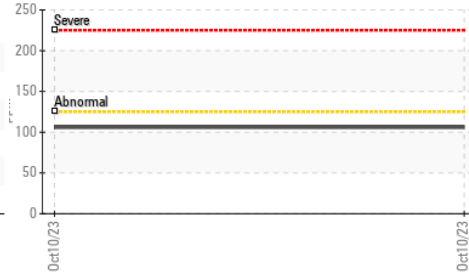
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	85.7	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	13.7	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	163	---	---

GRAPHS

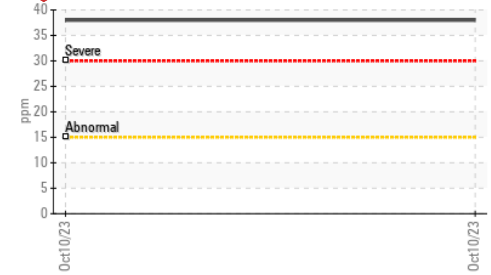
Viscosity @ 40°C



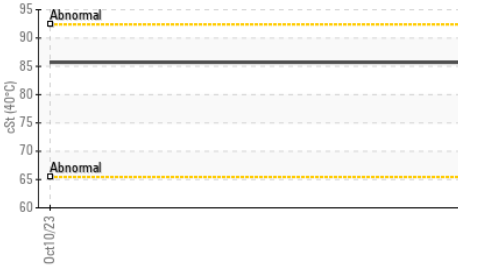
Iron (ppm)



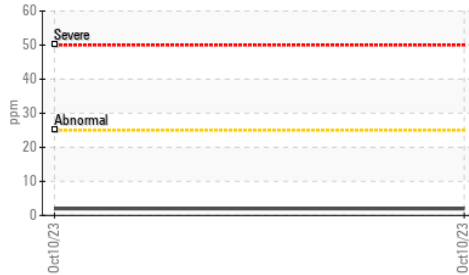
Lead (ppm)



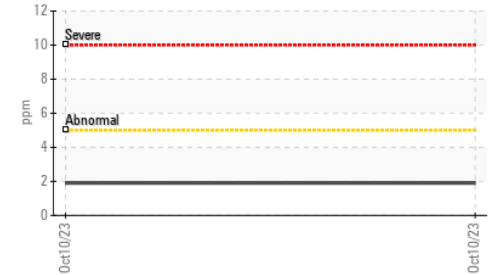
Viscosity @ 40°C



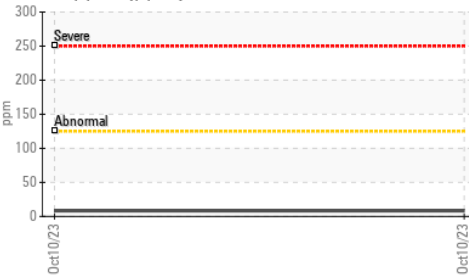
Aluminum (ppm)



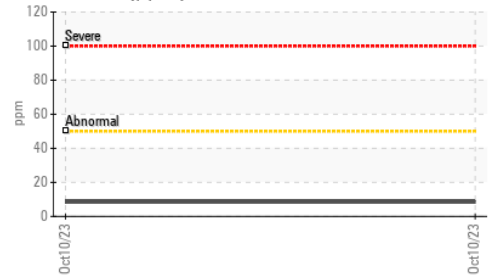
Chromium (ppm)



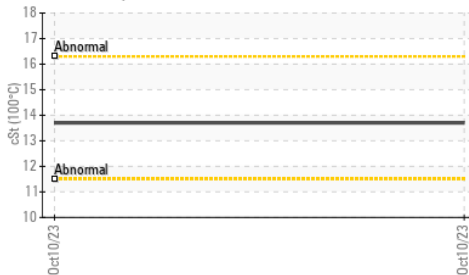
Copper (ppm)



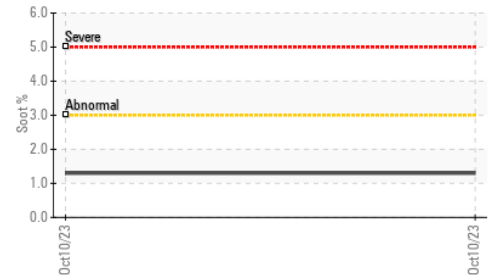
Silicon (ppm)



Viscosity @ 100°C



Soot %



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0075845 **Received** : 12 Oct 2023
Lab Number : 02588538 **Diagnosed** : 12 Oct 2023
Unique Number : 5657604 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KV40, VI)

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 ST ALEXANDRE, QC
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 Contact: Steve M.
 stevem@bfregeau.com

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.