

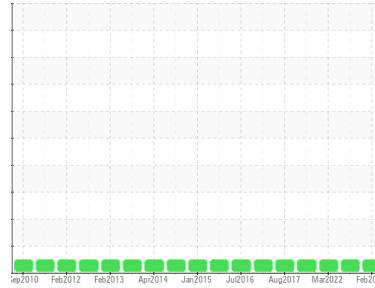
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**CATERPILLAR 315CL 05309 (S/N CJC02292)**  
Component  
**Diesel Engine**  
Fluid  
**SHELL ROTELLA T6 5W40 (20 LTR)**



## DIAGNOSIS

### Recommendation

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

### Wear

Les taux d'usure de tous les composants sont normaux.

### Contamination

Il n'y a aucun indice de contamination dans l'huile.

### Fluid Condition

L'état de l'huile est acceptable pour la durée de service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PC0073312</b>	PC0073314	PC0027678
Sample Date	Client Info		<b>01 Feb 2024</b>	28 Jan 2024	11 Mar 2022
Machine Age	hrs	Client Info	<b>11880</b>	11880	10699
Oil Age	hrs	Client Info	<b>680</b>	680	785
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	<b>32</b>	19	13
Chromium	ppm	ASTM D5185(m) >20	<b>1</b>	0	<1
Nickel	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m) >2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >25	<b>3</b>	2	2
Lead	ppm	ASTM D5185(m) >40	<b>1</b>	<1	<1
Copper	ppm	ASTM D5185(m) >330	<b>5</b>	1	1
Tin	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	1	<1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>44</b>	102	2
Barium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	<b>17</b>	10	57
Manganese	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	<b>182</b>	147	977
Calcium	ppm	ASTM D5185(m)	<b>1744</b>	2138	1126
Phosphorus	ppm	ASTM D5185(m)	<b>807</b>	946	1070
Zinc	ppm	ASTM D5185(m)	<b>945</b>	1152	1237
Sulfur	ppm	ASTM D5185(m)	<b>2554</b>	2837	2686
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	0

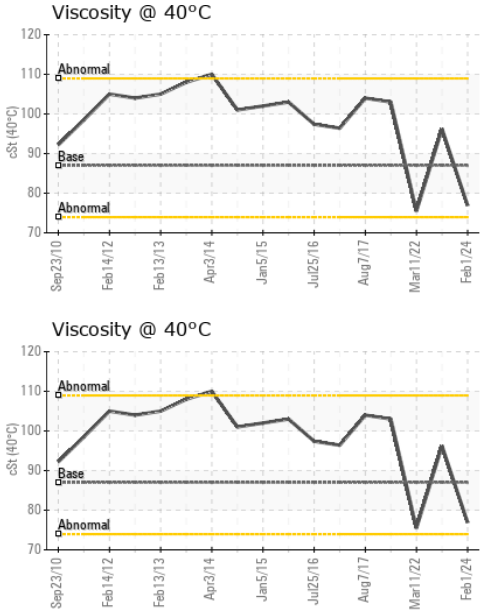
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>5</b>	4	4
Sodium	ppm	ASTM D5185(m)	<b>7</b>	2	2
Potassium	ppm	ASTM D5185(m) >20	<b>3</b>	2	1

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0.2</b>	0.7	0.3
Nitration	Abs/cm	ASTM D7624* >20	<b>10.1</b>	9.4	7.2
Sulfation	Abs./1mm	ASTM D7415* >30	<b>22.7</b>	22.9	20.3

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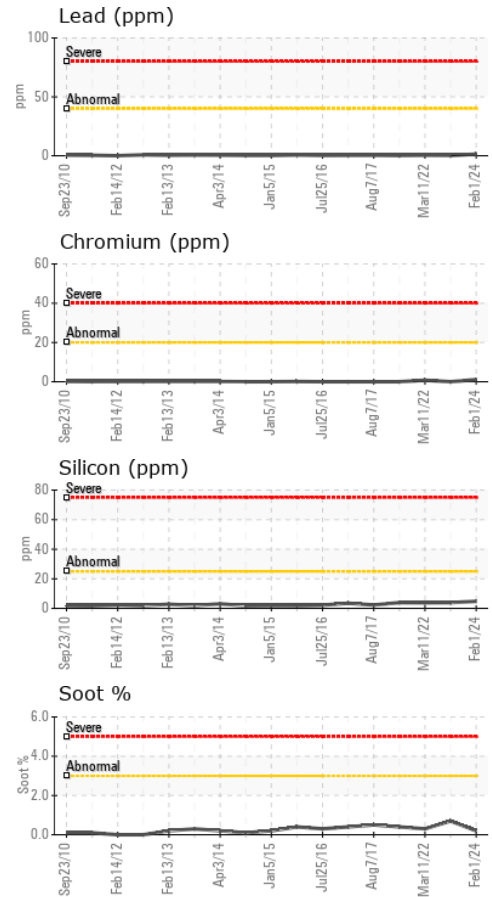
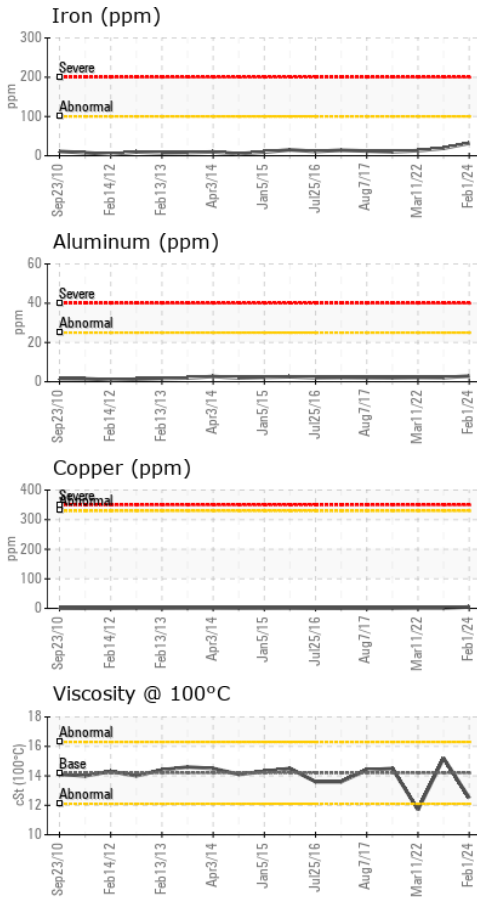


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>19.1</b>	18.6	13.7

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	87	<b>76.9</b>	96.2	75.5
Visc @ 100°C	cSt	ASTM D7279(m)	14.2	<b>12.5</b>	15.2	11.7
Viscosity Index (VI)	Scale	ASTM D2270*		<b>161</b>	166	149

## GRAPHS



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0073312  
**Lab Number** : **02616933**  
**Unique Number** : 5734043  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI, Visual )

**Received** : 21 Feb 2024  
**Tested** : 21 Feb 2024  
**Diagnosed** : 21 Feb 2024 - Wes Davis

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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.