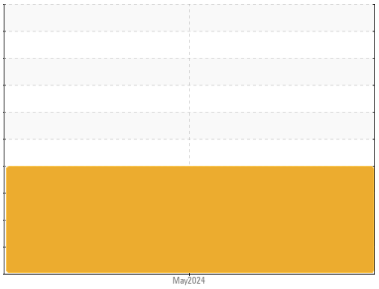
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
JCB 215-SSLC 287750 (S/N 3379203)
Component
Diesel Engine
Fluid
JCB 5W20 (3 GAL)

DIAGNOSIS

▲ Recommendation
We advise that you check for the source of the coolant leak. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform a viscosity test.

Wear
All component wear rates are normal.

▲ Contamination
There is a high concentration of water present in the oil. Test for glycol is negative.

Fluid Condition
The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**JCB005499**	---	---
Sample Date		Client Info		**14 May 2024**	---	---
Machine Age	hrs	Client Info		**4**	---	---
Oil Age	hrs	Client Info		**4**	---	---
Oil Changed		Client Info		**Not Changd**	---	---
Sample Status				**SEVERE**	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	**<1.0**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>125	**10**	---	---
Chromium	ppm	ASTM D5185m	>5	**<1**	---	---
Nickel	ppm	ASTM D5185m	>4	**1**	---	---
Titanium	ppm	ASTM D5185m		**<1**	---	---
Silver	ppm	ASTM D5185m	>3	**<1**	---	---
Aluminum	ppm	ASTM D5185m	>25	**5**	---	---
Lead	ppm	ASTM D5185m	>15	**<1**	---	---
Copper	ppm	ASTM D5185m	>125	**6**	---	---
Tin	ppm	ASTM D5185m	>4	**2**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	---	---
Cadmium	ppm	ASTM D5185m		**2**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**116**	---	---
Barium	ppm	ASTM D5185m		**6**	---	---
Molybdenum	ppm	ASTM D5185m		**74**	---	---
Manganese	ppm	ASTM D5185m		**6**	---	---
Magnesium	ppm	ASTM D5185m		**243**	---	---
Calcium	ppm	ASTM D5185m		**1310**	---	---
Phosphorus	ppm	ASTM D5185m		**685**	---	---
Zinc	ppm	ASTM D5185m		**848**	---	---
Sulfur	ppm	ASTM D5185m		**3255**	---	---

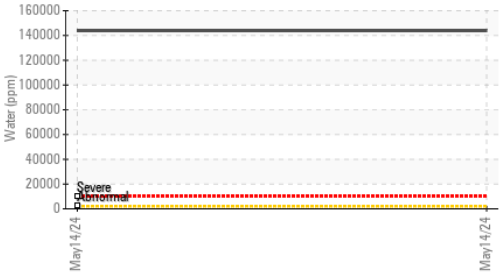
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**15**	---	---
Sodium	ppm	ASTM D5185m		**6**	---	---
Potassium	ppm	ASTM D5185m	>20	**5**	---	---
Water	%	ASTM D6304	>0.2	**▲ 14.4**	---	---
ppm Water	ppm	ASTM D6304	>2000	**▲ 144000**	---	---
Glycol	%	*ASTM D2982		**0.0**	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**0.5**	---	---
Nitration	Abs/cm	*ASTM D7624	>20	**38.1**	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**0.0**	---	---

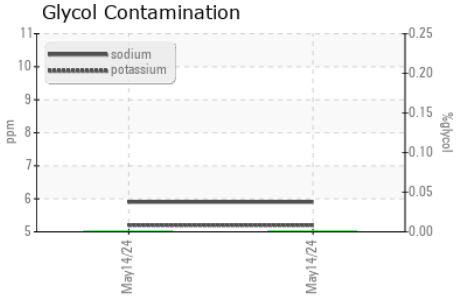
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**25.2**	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		**38.4**	---	---

OIL ANALYSIS REPORT

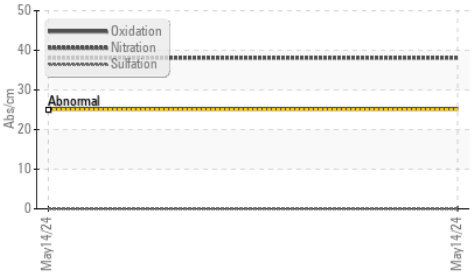
Water (KF)



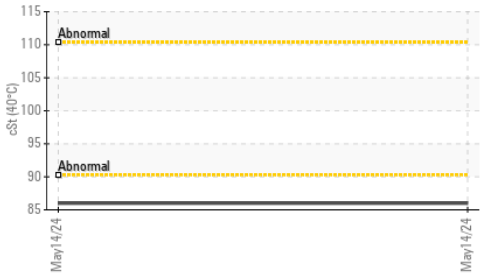
Glycol Contamination



FT-IR (Direct Trend)



Viscosity @ 40°C



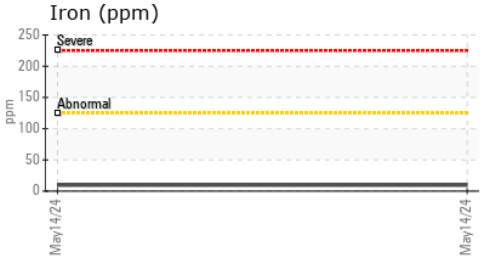
Viscosity @ 100°C

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

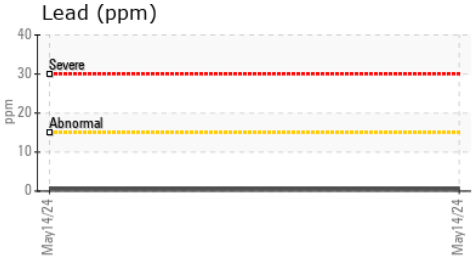
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**86.0**	---	---

GRAPHS

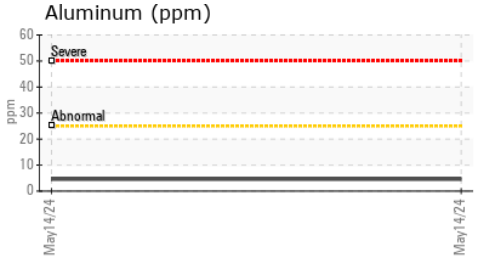
Iron (ppm)



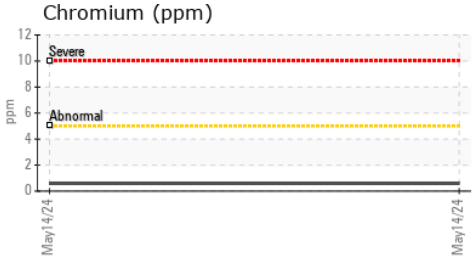
Lead (ppm)



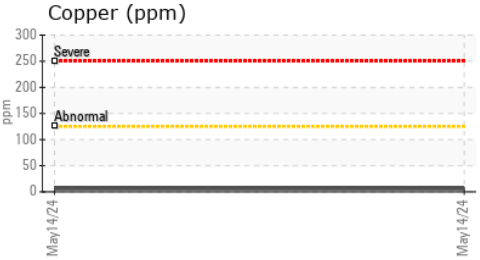
Aluminum (ppm)



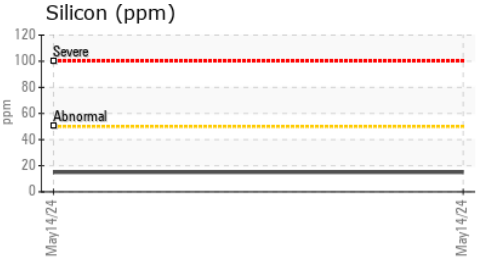
Chromium (ppm)



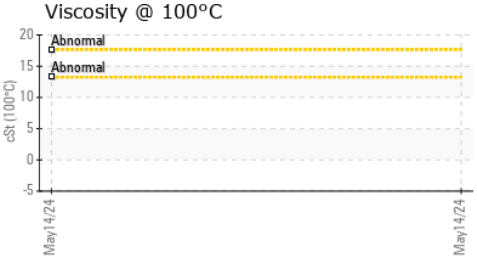
Copper (ppm)



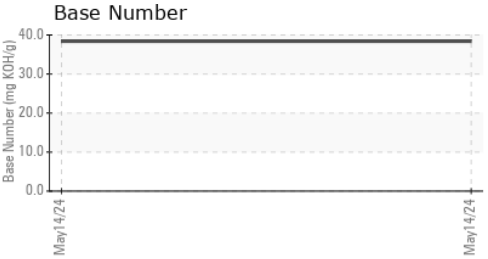
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JCB005499
Lab Number : 06181183
Unique Number : 11032509
Test Package : MOB 1 (Additional Tests: Glycol, KF, KV40, TBN, VI)
Received : 16 May 2024
Tested : 22 May 2024
Diagnosed : 22 May 2024 - Jonathan Hester

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)

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Report Id: HOOMIF [WUSCAR] 06181183 (Generated: 05/22/2024 16:49:41) Rev: 1
Contact/Location: NATE SANDERS - HOOMIF