



OIL ANALYSIS REPORT

Area
[SNIDER CONSTRUCTION]
 Machine Id
JCB 3TS-8T SL320/40635U1944623
 Component
Diesel Engine
 Fluid
JCB (--- QTS)

Sample Rating Trend



WATER



DIAGNOSIS

▲ Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear

High concentration of visible metal present. All component wear rates are normal.

▲ Contamination

Fuel content negligible. There is a moderate concentration of water present in the oil.

▲ Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		JCB005951	---	---
Sample Date	Client Info		03 Apr 2024	---	---
Machine Age	hrs	Client Info	127	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >125	6	---	---
Chromium	ppm	ASTM D5185m >5	1	---	---
Nickel	ppm	ASTM D5185m >4	<1	---	---
Titanium	ppm	ASTM D5185m	<1	---	---
Silver	ppm	ASTM D5185m >3	0	---	---
Aluminum	ppm	ASTM D5185m >25	7	---	---
Lead	ppm	ASTM D5185m >15	1	---	---
Copper	ppm	ASTM D5185m >125	4	---	---
Tin	ppm	ASTM D5185m >4	3	---	---
Vanadium	ppm	ASTM D5185m	<1	---	---
Cadmium	ppm	ASTM D5185m	<1	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	172	---	---
Barium	ppm	ASTM D5185m	2	---	---
Molybdenum	ppm	ASTM D5185m	110	---	---
Manganese	ppm	ASTM D5185m	1	---	---
Magnesium	ppm	ASTM D5185m	402	---	---
Calcium	ppm	ASTM D5185m	2084	---	---
Phosphorus	ppm	ASTM D5185m	979	---	---
Zinc	ppm	ASTM D5185m	1154	---	---
Sulfur	ppm	ASTM D5185m	3512	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	18	---	---
Sodium	ppm	ASTM D5185m	2	---	---
Potassium	ppm	ASTM D5185m >20	5	---	---
Fuel	%	ASTM D3524 >5	0.2	---	---
Water	%	ASTM D6304 >0.2	▲ 0.497	---	---
ppm Water	ppm	ASTM D6304 >2000	▲ 4970	---	---
Glycol	%	*ASTM D2982	0.0	---	---

INFRA-RED

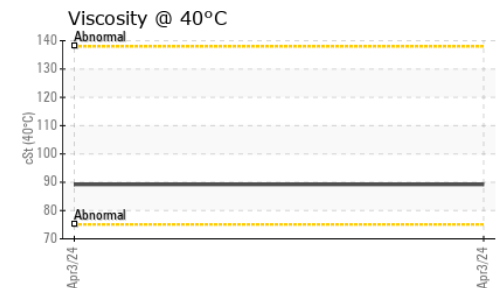
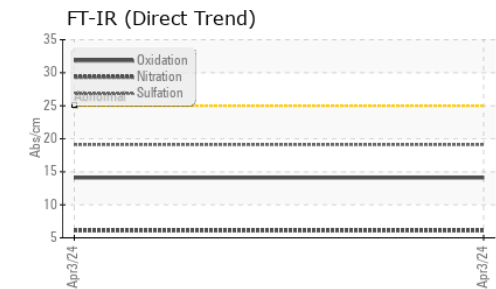
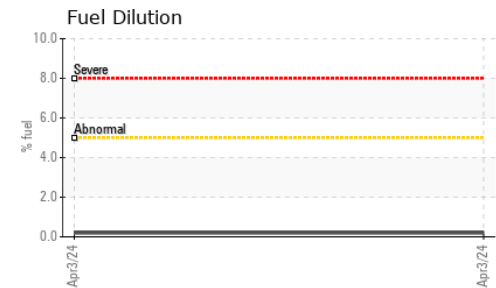
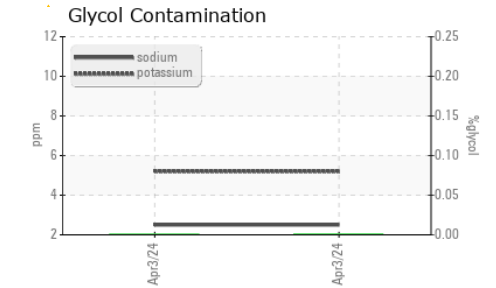
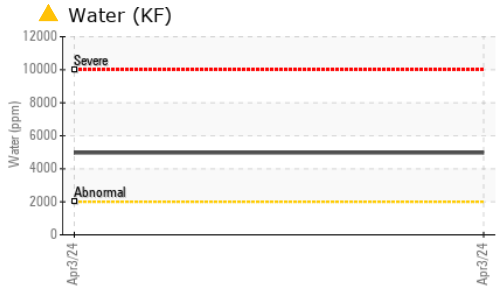
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.2	---	---
Nitration	Abs/cm	*ASTM D7624 >20	6.1	---	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.1	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	14.1	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.3	---	---



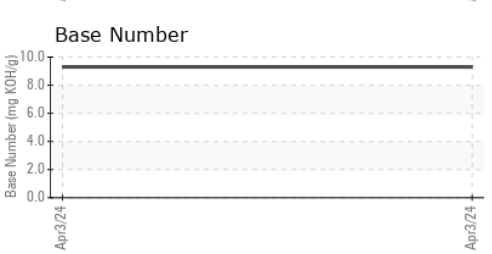
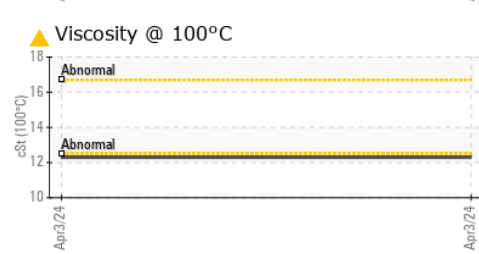
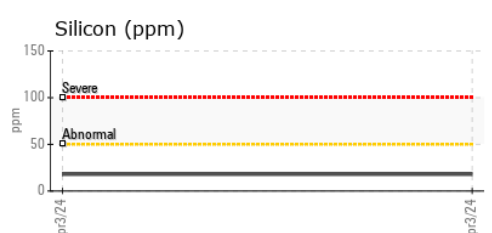
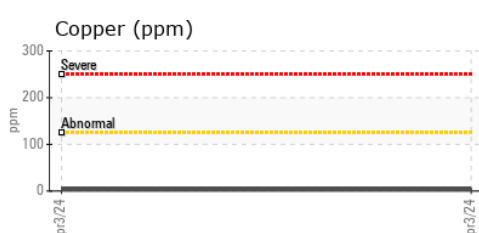
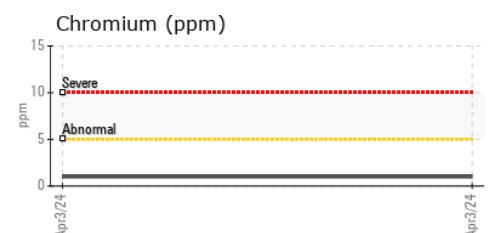
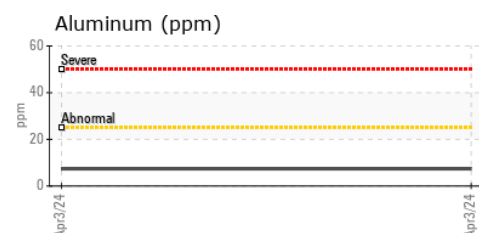
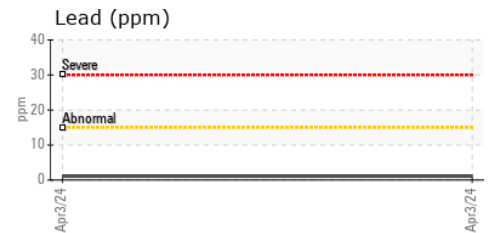
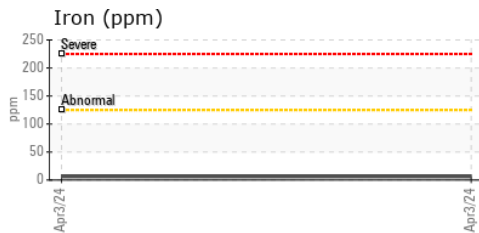
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ HEAVY	---
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	NORML	---
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	89.2	---	---
Visc @ 100°C	cSt	ASTM D445	▲ 12.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270	132	---	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JCB005951
Lab Number : **06142919**
Unique Number : 10967727
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, KF, KV40, PercentFuel, TBN)

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 2440 EVERGREEN PKWY
 LEBANON, MO
 US 65536
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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)