



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Machine Id
JCB 512-83 51283 (S/N 2792939)
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 15W40. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JCB004386	---	---
Sample Date		Client Info		27 Feb 2024	---	---
Machine Age	hrs	Client Info		638	---	---
Oil Age	hrs	Client Info		20	---	---
Filter Age	hrs	Client Info		20	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				MARGINAL	---	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>125	58	---	---
Chromium	ppm	ASTM D5185(m)	>5	<1	---	---
Nickel	ppm	ASTM D5185(m)	>4	2	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	5	---	---
Lead	ppm	ASTM D5185(m)	>15	1	---	---
Copper	ppm	ASTM D5185(m)	>125	41	---	---
Tin	ppm	ASTM D5185(m)	>4	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

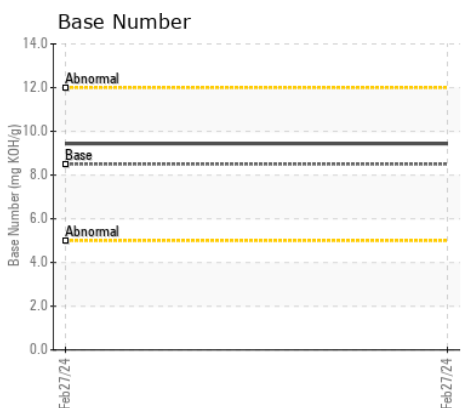
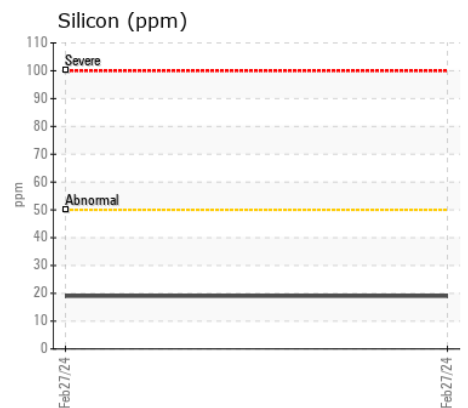
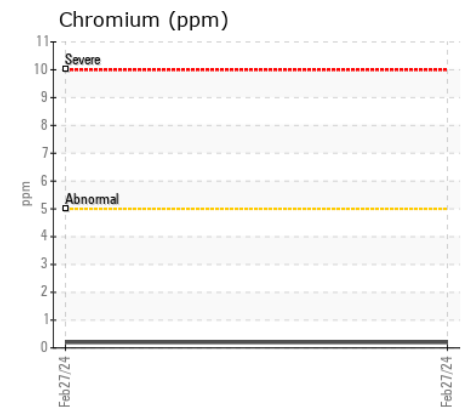
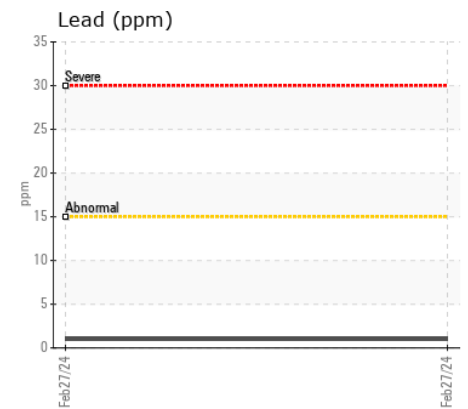
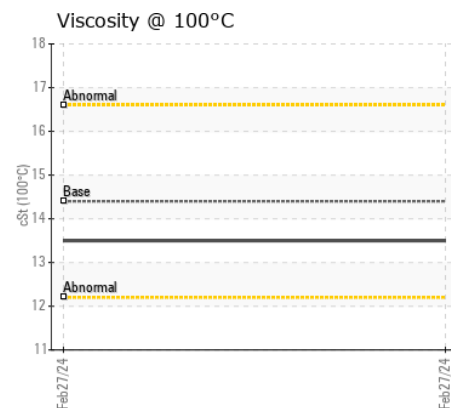
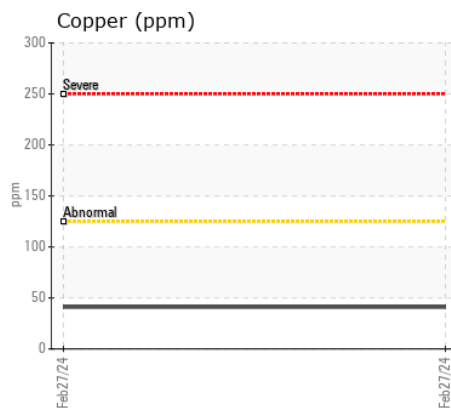
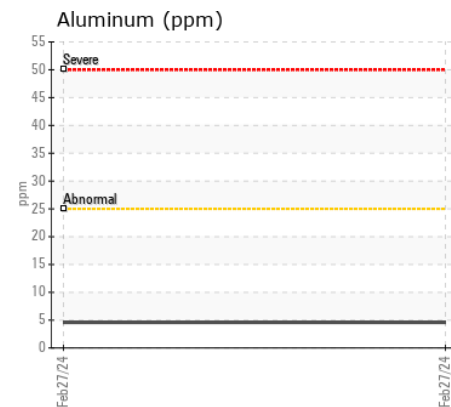
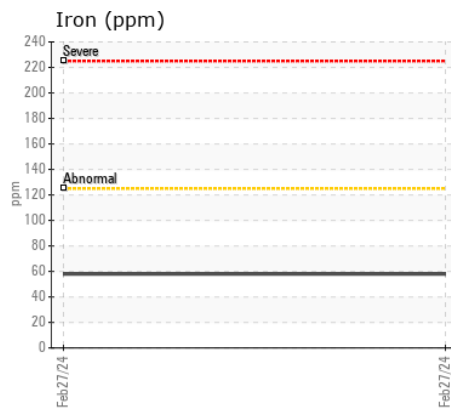
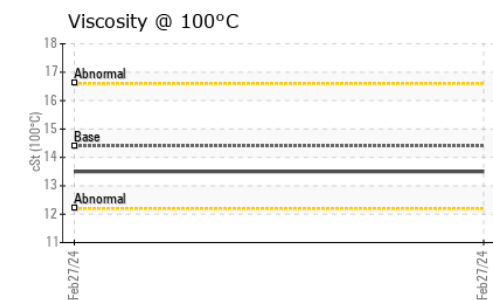
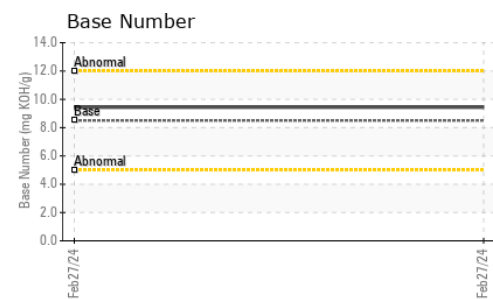
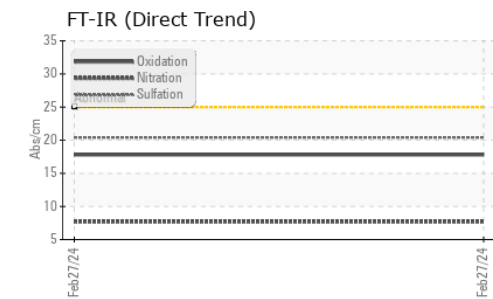
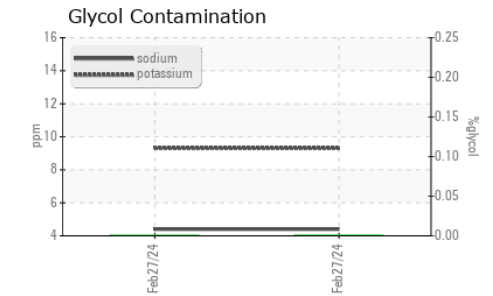
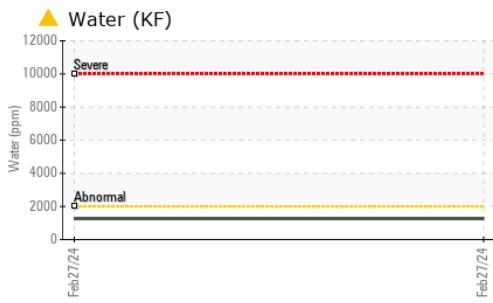
There is a trace of moisture present in the oil. Test for glycol is negative.

Silicon	ppm	ASTM D5185(m)	>50	19	---	---
Potassium	ppm	ASTM D5185(m)	>20	9	---	---
Fuel		WC Method	>5	<1.0	---	---
Water	%	ASTM D6304*	>0.2	▲ 0.127	---	---
ppm Water	ppm	ASTM D6304*	>2000	▲ 1270	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*	>3	0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	7.7	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.4	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	▲ .2%	---	---

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.

Sodium	ppm	ASTM D5185(m)	>158	4	---	---
Boron	ppm	ASTM D5185(m)	250	154	---	---
Barium	ppm	ASTM D5185(m)	10	0	---	---
Molybdenum	ppm	ASTM D5185(m)	100	0	---	---
Manganese	ppm	ASTM D5185(m)		2	---	---
Magnesium	ppm	ASTM D5185(m)	450	12	---	---
Calcium	ppm	ASTM D5185(m)	3000	1965	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	935	---	---
Zinc	ppm	ASTM D5185(m)	1350	1058	---	---
Sulfur	ppm	ASTM D5185(m)	4250	2838	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.8	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	9.44	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	115	100	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.5	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	126	134	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : JCB004386 **Received** : 10 Jun 2024
Lab Number : 02640750 **Tested** : 11 Jun 2024
Unique Number : 5789912 **Diagnosed** : 11 Jun 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, KF, KV40, TBN, VI, Visual)

ALPA EQUIPMENT
 289 HIGHWAY 105
 FREDERICTON, NB
 CA E3A 5G8
 Contact: Hugo Beaulieu

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.

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