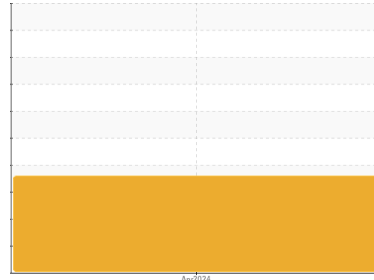




# OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id  
**KUBOTA Z1255 NOUNITWC0670690**  
 Component  
**Diesel Engine**  
 Fluid  
 **DIESEL ENGINE OIL SAE 10W30 (--- LTR)**

## DIAGNOSIS

### ▲ Recommendation

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

Metal levels are typical for a new component breaking in.

### ▲ Contamination

Test for glycol is positive. There is a light concentration of glycol present in the oil. There is a moderate concentration of water present in the oil.

### ● Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0670690</b>	---	---
Sample Date	Client Info			<b>16 Apr 2024</b>	---	---
Machine Age	hrs	Client Info		<b>350</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed	Client Info			<b>Changed</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method		>5	<b>&lt;1.0</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	<b>6</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>20</b>	---	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	---	---
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	---	---
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	---	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---	---

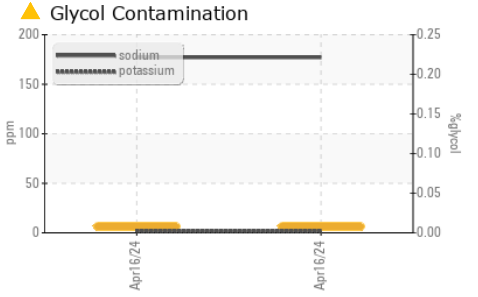
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	<b>6</b>	---	---
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	100	<b>1</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m)	450	<b>16</b>	---	---
Calcium	ppm	ASTM D5185(m)	3000	<b>1666</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>709</b>	---	---
Zinc	ppm	ASTM D5185(m)	1350	<b>917</b>	---	---
Sulfur	ppm	ASTM D5185(m)	4250	<b>1870</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>5</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>177</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	---	---
Water	%	ASTM D6304*	>0.2	<b>NEG</b>	---	---
Glycol	%	ASTM D7922*		<b>▲ 0.012</b>	---	---

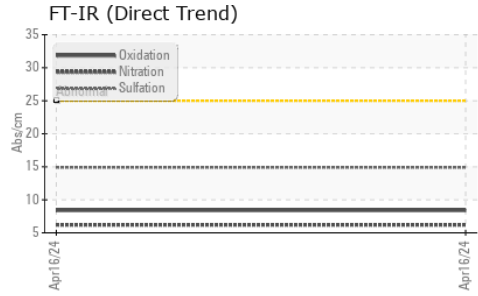
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.2</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>14.9</b>	---	---



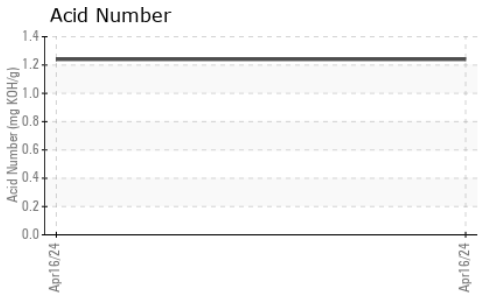
# OIL ANALYSIS REPORT



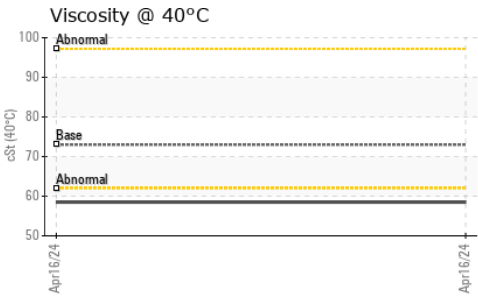
FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>8.4</b>	---
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>1.24</b>	---
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	<b>5.77</b>	---



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>▲ .2%</b>	---
Free Water	scalar	Visual*		<b>NEG</b>	---



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	73	<b>58.5</b>	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.9	<b>10.4</b>	---
Viscosity Index (VI)	Scale	ASTM D2270*	138	<b>168</b>	---



### GRAPHS

**Iron (ppm)**

**Lead (ppm)**

**Aluminum (ppm)**

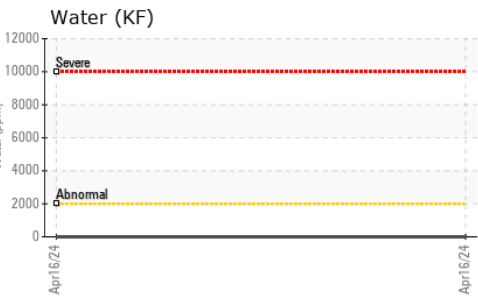
**Chromium (ppm)**

**Copper (ppm)**

**Silicon (ppm)**

**Viscosity @ 100°C**

**Base Number**



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0670690      **Received** : 17 Apr 2024  
**Lab Number** : **02629445**      **Tested** : 18 Apr 2024  
**Unique Number** : 5762577      **Diagnosed** : 18 Apr 2024 - Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: Glycol, KF, KV40, TAN Auto, TAN Man, VI )

**DEBOER'S EQUIPMENT**  
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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.