



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id  
**KAWASAKI KZ95ZV 224 (S/N 97L5-5057)**  
 Component  
**Diesel Engine**  
 Fluid  
**SHELL ROTELLA T 15W40 (--- GAL)**

## RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

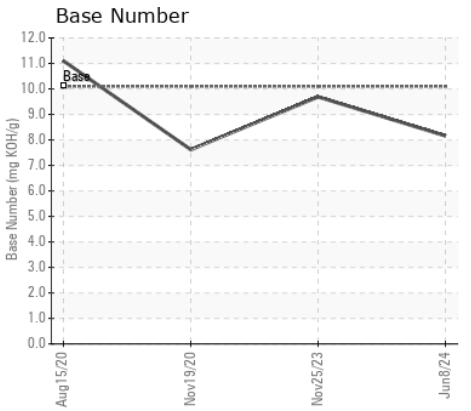
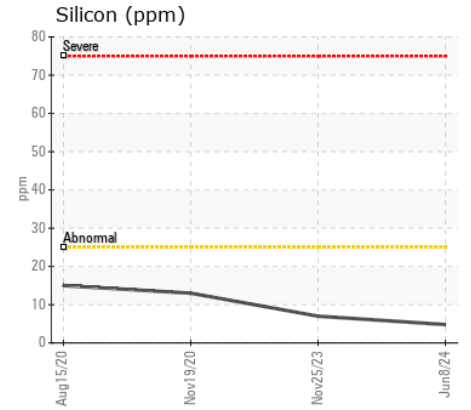
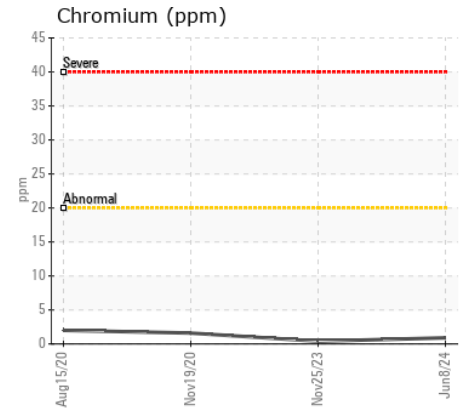
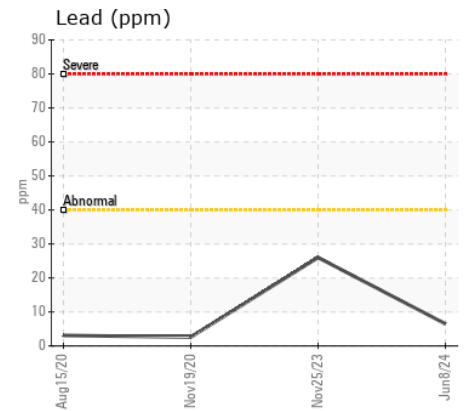
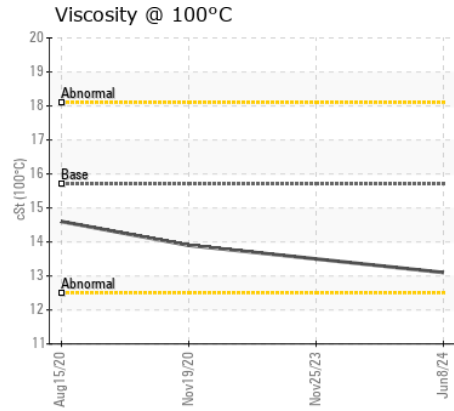
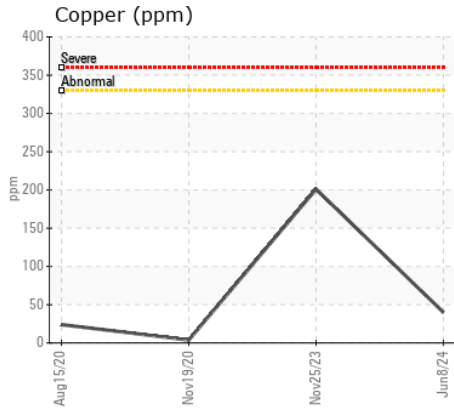
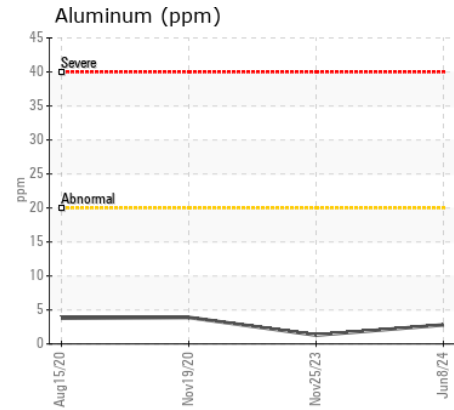
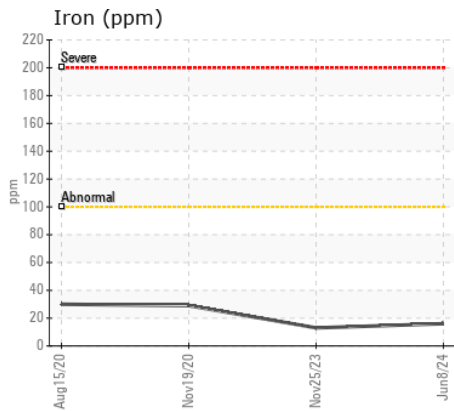
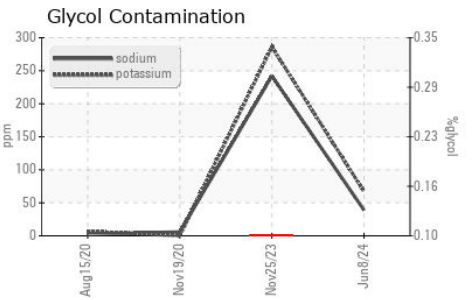
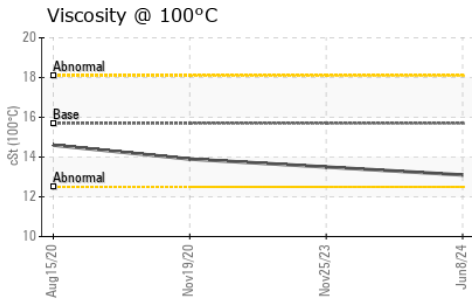
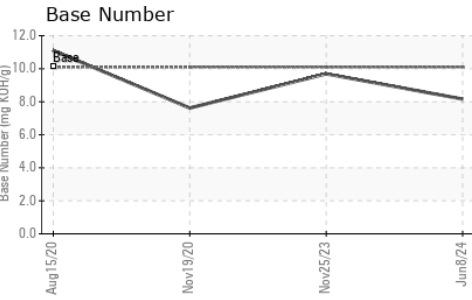
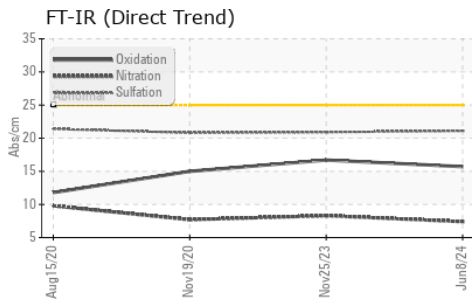
## CONTAMINATION

Sodium and/or potassium levels remain elevated. Test for glycol is negative.

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0960418</b>	RO06028850	RO05123865
Sample Date		Client Info		<b>08 Jun 2024</b>	25 Nov 2023	19 Nov 2020
Machine Age	hrs	Client Info		<b>24341</b>	23740	20007
Oil Age	hrs	Client Info		<b>601</b>	565	527
Filter Age	hrs	Client Info		<b>601</b>	565	527
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	N/A
Sample Status				<b>ATTENTION</b>	SEVERE	NORMAL
Iron	ppm	ASTM D5185m	>100	<b>16</b>	13	29
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	2
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	1	4
Lead	ppm	ASTM D5185m	>40	<b>6</b>	▲ 26	3
Copper	ppm	ASTM D5185m	>330	<b>40</b>	▲ 201	4
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	2	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	<b>5</b>	7	13
Potassium	ppm	ASTM D5185m	>20	● <b>67</b>	▲ 286	0
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	%	*ASTM D2982		<b>NEG</b>	▲ 0.10	NEG
Soot %	%	*ASTM D7844	>3	<b>0.7</b>	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.4</b>	8.3	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.1</b>	20.9	20.8
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185m		<b>39</b>	▲ 242	6
Boron	ppm	ASTM D5185m	316	<b>174</b>	118	147
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	1.2	<b>1</b>	5	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	24	<b>14</b>	16	11
Calcium	ppm	ASTM D5185m	2292	<b>2440</b>	2033	2525
Phosphorus	ppm	ASTM D5185m	1064	<b>1103</b>	989	912
Zinc	ppm	ASTM D5185m	1160	<b>1366</b>	1172	1102
Sulfur	ppm	ASTM D5185m	4996	<b>3732</b>	3283	3089
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.7</b>	16.7	15
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	<b>8.16</b>	9.69	7.62
Visc @ 100°C	cSt	ASTM D445	15.7	<b>13.1</b>	13.5	13.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0960418  
**Lab Number** : 06237051  
**Unique Number** : 11125885  
**Test Package** : MOB 2

**Received** : 15 Jul 2024  
**Tested** : 18 Jul 2024  
**Diagnosed** : 18 Jul 2024 - Jonathan Hester

**BIG 4 INC**  
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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)