WEAR CONTAMINATION **FLUID CONDITION**

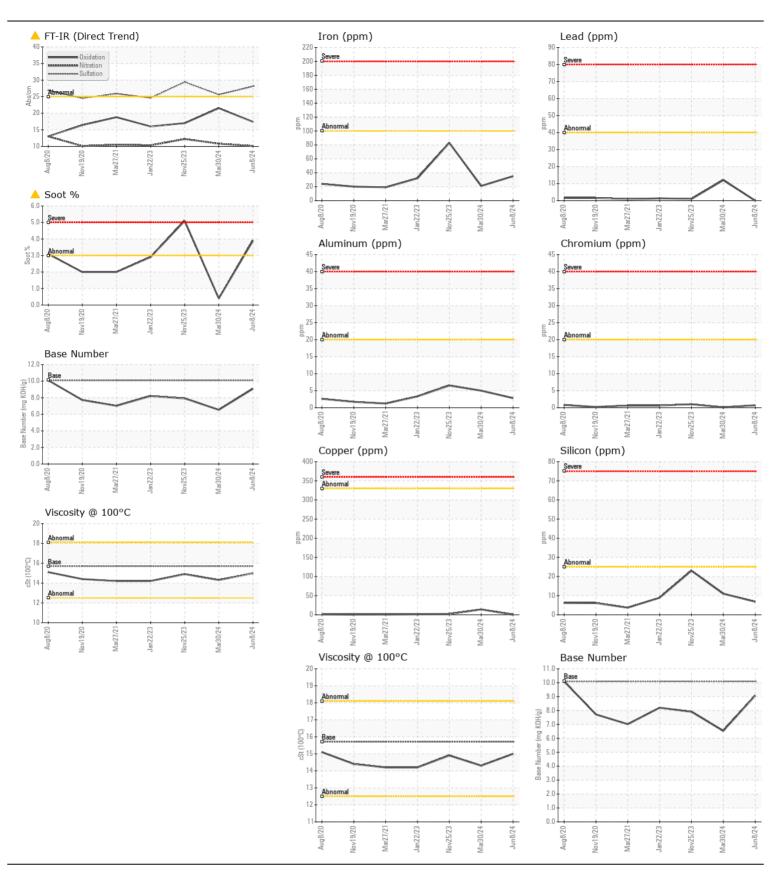
NORMAL ABNORMAL NORMAL

Machine Id

KAWASAKI KZ95Z5-2 227 (S/N 97C5-5471)

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted.	Sample Number		Client Info		WC0960437	RO06157115	RO0602885
	Sample Date		Client Info		08 Jun 2024	30 Mar 2024	25 Nov 202
	Machine Age	hrs	Client Info		22046	21588	20740
	Oil Age	hrs	Client Info		458	848	1176
	Filter Age	hrs	Client Info		458	848	1176
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	ABNORMA
VEAR	Iron	ppm	ASTM D5185m	>100	35	21	83
WEAR	Chromium	ppm	ASTM D5185m		<1	<1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	77	0	0	<1
	Silver	ppm	ASTM D5185m	~3	0	0	0
	Aluminum	ppm	ASTM D5185m		3	5	6
	Lead	ppm	ASTM D5185m		0	12	<1
	Copper	ppm	ASTM D5185m		<1	14	2
	Tin	ppm	ASTM D5185m		0	3	0
	Vanadium	ppm	ASTM D5185m	7.0	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
OONIT A BAIN A TION	0.11.		AOTA DE LOS	05	_		
CONTAMINATION	Silicon	ppm	ASTM D5185m		7	11	23
Light concentration of carbon/soot present in the oil.	Potassium Fuel	ppm	ASTM D5185m		9	5 <1.0	<1.0
			WC Method		<1.0		
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol Soot %	0/	WC Method	. 0	NEG	NEG 0.4	NEG 5.1
	Nitration	% Abs/cm	*ASTM D7844 *ASTM D7624	>20	▲ 3.9 10.1	10.8	12.2
	Sulfation	Abs/.1mm	*ASTM D7624		28.1	25.6	29.4
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
			v 100aa1				
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	11	3
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	316	132	65	55
oil. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	1.2	<1	199	28
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		42	676	192
	Calcium	ppm	ASTM D5185m		2122	1516	1978
	Phosphorus	ppm	ASTM D5185m		969	869	1018
	Zinc	ppm	ASTM D5185m		1177	1039	1239
	Sulfur	ppm	ASTM D5185m		3253	3145	3219
	Oxidation	Abs/.1mm	*ASTM D7414		17.4	21.5	17.0
	Base Number (BN)				9.07	6.54	7.91
	Visc @ 100°C	cSt	ASTM D445	15.7	15.0	14.3	14.9





Certificate L2367

Laboratory Sample No.

: WC0960437 Lab Number : 06237050 Unique Number: 11125884 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received **Tested** Diagnosed

: 15 Jul 2024 : 17 Jul 2024

: 17 Jul 2024 - Wes Davis

BIG 4 INC 301 WORTH ST HEMPHILL, TX US 75948

Contact: JODIE MCGEE jodie.mcgee@big4inc.com T: (936)275-7532

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)

F: (409)787-2071

Contact/Location: JODIE MCGEE - BIGHEM