WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

KOMATSU D61 B-10 (S/N B60176)

Component Diesel Engine

KOMATSU 15W40 (7 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0196383	JRMC455289	
	Sample Date		Client Info		17 Jan 2024	03 Jan 2023	
	Machine Age	hrs	Client Info		5403	4855	
	Oil Age	hrs	Client Info		548	580	
	Filter Age	hrs	Client Info		548	580	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	16	18	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>20	2	3	
	Lead	ppm	ASTM D5185m	>40	0	0	
	Copper	ppm	ASTM D5185m	>330	<1	<1	
	Tin	ppm	ASTM D5185m	>15	0	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTANUNATION	0:1:		AOTM DE LOE	0.5	_	_	
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	5	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	1	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	. 0	NEG	NEG 0.4	
	Soot % Nitration	% Abs/cm	*ASTM D7844 *ASTM D7624	>20	0.4 8.7	0.4 8.6	
	Sulfation	Abs/.1mm	*ASTM D7024		21.3	21.1	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		0	2	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		77	76	
	Barium	ppm	ASTM D5185m		3	1	
	Molybdenum	ppm	ASTM D5185m		70	92	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		460	440	
	Calcium	ppm	ASTM D5185m		1786	1823	
	Phosphorus	ppm	ASTM D5185m		1046	1007	
	Zinc	ppm	ASTM D5185m		1304	1224	
	Sulfur	ppm	ASTM D5185m	05	3755	3251	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	17.0	
	Base Number (BN)	0 0	ASTM D2896		7.3	7.4	
	Visc @ 100°C	cSt	ASTM D445	1	14.0	14.1	







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: JR0196383 : 06064062 : 10835444

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 18 Jan 2024 Diagnosed : 19 Jan 2024

Diagnostician : Wes Davis

Test Package : CONST (Additional Tests: TBN) 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) **DIVERSIFIED BIO-MASS**

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