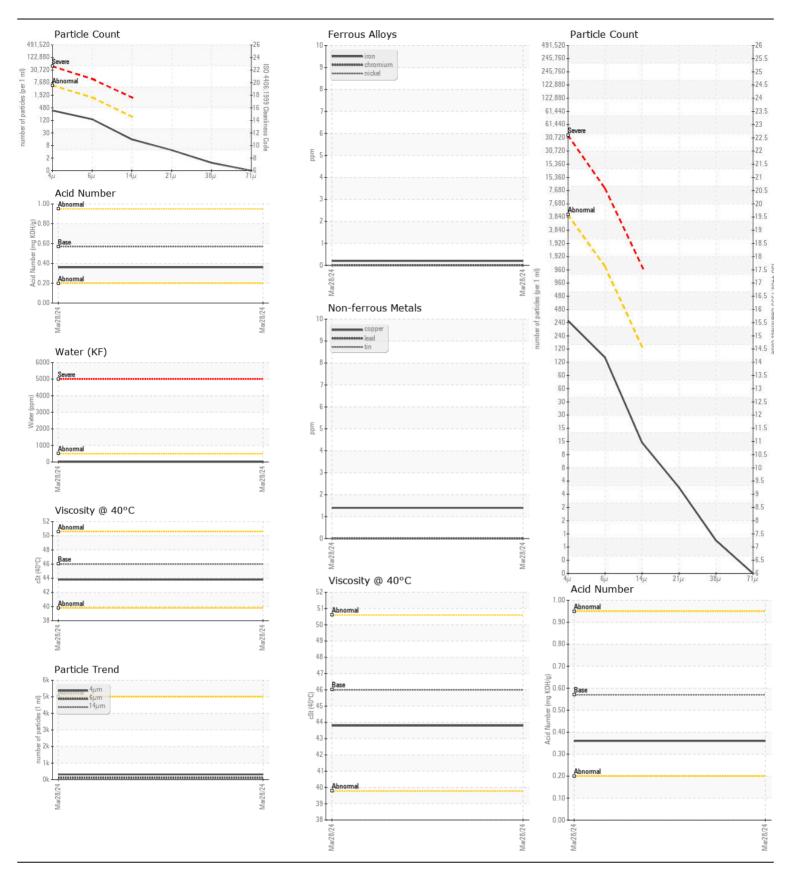
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id

ENGEL IMM2000-4

Hydraulic System

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ST43381		
Sample Date		Client Info		28 Mar 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		N/A		
Sample Status				NORMAL		
Iron	mag	ASTM D5185(m)	>20	<1		
		. ,				
		()				
			<i>></i> 20			
				-		
		1 /	>20	_		
		1 /				
	• •	. ,	<i>></i> 20			
			NONE	-		
Silicon	ppm	ASTM D5185(m)	>15	3		
Potassium	ppm	ASTM D5185(m)	>20	0		
Water	%	ASTM D6304*	>0.05	0.001		
ppm Water	ppm	ASTM D6304*	>500	7		
Particles >4µm		ASTM D7647	>5000	314		
Particles >6µm		ASTM D7647	>1300	120		
Particles >14μm		ASTM D7647	>160	13		
Particles >21µm		ASTM D7647	>40	4		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	15/14/11		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.05	NEG		
Sodium	nnm	ASTM D5185(m)		0		
			5			
		1 /				
		1 /				
,			3			
	• •	. ,	25			
•		\ /				
		1 /				
	ppm	ASTM D5185(III)	2500	1343		
Stillfill				1.344.3		
Sulfur Acid Number (AN)	mg KOH/g	ASTM D974*		0.36		
	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Yellow Metal Silicon Potassium Water ppm Water Particles >4µm Particles >6µm Particles >71µm Particles >71µm Oil Cleanliness Silt Debris Sand/Dirt Appearance Odor	Sample Number Sample Date Machine Age hrs Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm White Metal scalar Yellow Metal scalar Yellow Metal scalar Yellow Metal scalar Yellos >6µm Particles >6µm Particles >14µm Particles >38µm Particles >71µm Oil Cleanliness Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Codor scalar Emulsified Water ppm Manganese ppm Magnesium ppm Manganese ppm Magnesium ppm Calcium ppm Phosphorus Pms	Sample Number Sample Date Machine Age Oil Age hrs Client Info ASTM D5185(m) ASTM D5185(m	Sample Number Client Info	Sample Number Client Info Client Info Client Info Client Info O O O O O O O O O	Sample Number Client Info ST43381 Sample Date Client Info 0 Machine Age hrs Client Info 0 Client Info 0 Client Info 0 Client Info 0 Client Info 0 Client Info 0 Client Info N/A Client Info N/A N/A





CALA ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Sample No. : ST43381

Received : 15 Apr 2024 Lab Number : 02628818 **Tested** : 16 Apr 2024 : 16 Apr 2024 - Wes Davis Unique Number: 5761950 Diagnosed

Test Package: IND 2 (Additional Tests: KF, TAN Man) 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.

KUMI CANADA CORPORATION

55 REAGENS INDUSTRIAL PKWY BRADFORD, ON CA L3Z 0Z9

Contact: Service Manager

T: F: