WEAR CONTAMINATION FLUID CONDITION

SEVERE SEVERE NORMAL

Ascendum Machinery/250 Hour CSA KUBOTA KX161-3S 1388 (S/N 30569)

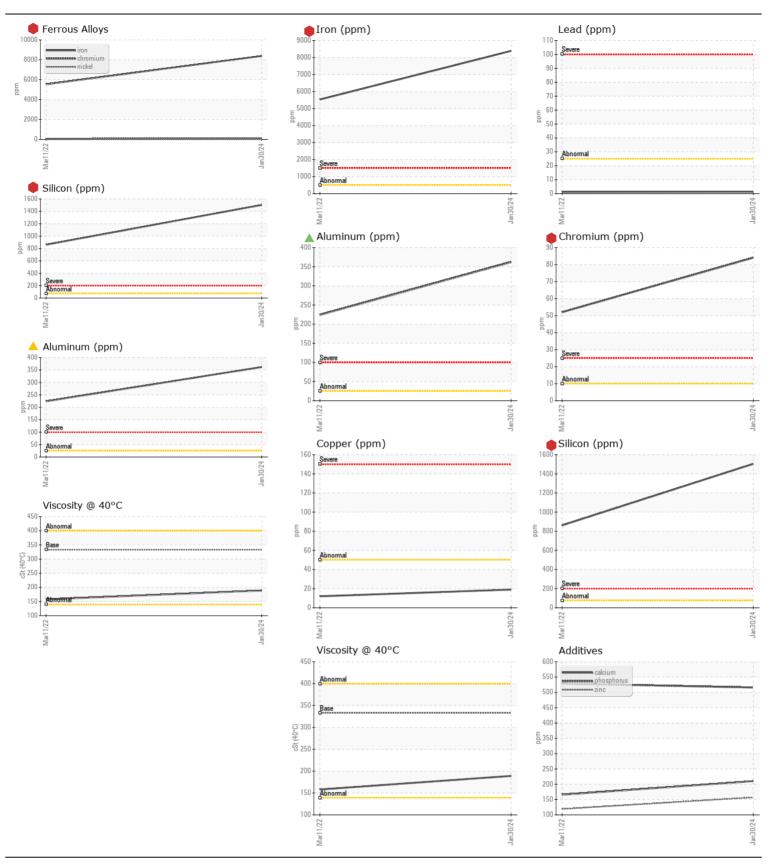
Component
Rear Left Final Drive

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Machine Age hrs Ci Machine Age hrs Ci Oil Age hrs Ci Filter Changed Ci Filter Changed Ci Filter Changed Ci Filter Changed Ci Filter Trainium ppm As Filter Age hrs Ci Filter Age Filter	Method I	Limit/Abn	Current	History1	History2
We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. WEAR The iron level is severe. Gear wear is indicated. WEAR The iron level is severe. Gear wear is indicated. WEAR The iron level is severe. Gear wear is indicated. WEAR The iron level is severe. Gear wear is indicated. WEAR The iron level is severe. Gear wear is indicated. WEAR The iron level is severe. Gear wear is indicated. WEAR The iron level is severe. Gear wear is indicated. WEAR The iron level is severe. Gear wear is indicated. WEAR The iron level is severe. Gear wear is indicated. WEAR The iron level is severe. Gear wear is indicated. Wiskel ppm AS Aluminum ppm AS Aluminum ppm AS Copper ppm AS Copper ppm AS Vanadium ppm AS Vanadium ppm AS Vanadium ppm AS Valuer Wilte Metal scalar "V Yellow Metal scalar "V Silt scalar "V Sand/Dirt scalar "V Sodium ppm AS Boron ppm AS Molybdenum ppm AS Molybdenum ppm AS Magnesium ppm AS	Client Info		ASC0001612	VCP0000951	
wear. We recommend an early resample to monitor this condition. Oil Age hrs CI Filter Age hrs CI Gil Changed CI Filter Changed Sample Status WEAR The iron level is severe. Gear wear is indicated. Iron ppm AS Titanium ppm AS Silver ppm AS Aluminum ppm AS Copper ppm AS Copper ppm AS Vanadium ppm AS Silicon (Si) and aluminum (Al) indicate alumina- silicate (coarse dirt) ingress. CONTAMINATION Elemental levels of silicon (Si) and aluminum (Al) indicate alumina- silicate (coarse dirt) ingress. Silt scalar V Debris scalar V Debris scalar V Debris scalar V Debris scalar V Sand/Dirt scalar V Codor scalar V Codor scalar V Debris scalar V Sand/Dirt scalar V Sand/Dirt scalar V Sand/Dirt scalar V Sodium ppm AS Molybdenum ppm AS Molybdenum ppm AS Molybdenum ppm AS Manganese ppm AS Manganesum ppm AS Calcium ppm	Client Info		30 Jan 2024	11 Mar 2022	
wear. We recommend an early resample to monitor this condition. Oil Age hrs CI Filter Age hrs Oil Changed CI Filter Changed Sample Status WEAR The iron level is severe. Gear wear is indicated. Iron ppm AS Nickel ppm AS Nickel ppm AS Silver ppm AS Silver ppm AS Aluminum ppm AS Lead ppm AS Copper ppm AS Aluminum ppm AS Lead ppm AS Vanadium ppm AS Vanadium ppm AS Vanadium ppm AS Vanadium ppm AS Silver ppm AS Vanadium ppm AS Vanadium ppm AS Vanadium ppm AS Silver ppm AS Silicon ppm AS Silicon ppm AS Silicon ppm AS Silicon ppm AS Silicate (coarse dirt) ingress. CONTAMINATION Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. Silt scalar 'V Sand/Dirt scalar 'V Debris scalar 'V Debris scalar 'V Emulsified Water scala	Client Info		500	56	
WEAR Iron ppm AS Nickel ppm AS Titanium ppm AS Silver ppm AS Aluminum ppm AS Aluminum ppm AS Copper ppm AS Vanadium ppm AS Vanadium ppm AS White Metal scalar "V Yellow Metal scalar "V Yellow Metal scalar "V Sand/Dirt scalar "	Client Info		500	56	
Filter Changed Sample Status WEAR The iron level is severe. Gear wear is indicated. Iron ppm AS Nickel ppm AS Titanium ppm AS Silver ppm AS Silver ppm AS Aluminum ppm AS Aluminum ppm AS Copper ppm AS Copper ppm AS Vanadium ppm AS Vanadium ppm AS Vanadium ppm AS Vanadium ppm AS Vellow Metal scalar Vellow Metal scalar Vellow Metal scalar Vellow Metal scalar Vellow Metal Silicate (coarse dirt) ingress. CONTAMINATION Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress. Silt scalar Vellow Metal	Client Info		0	0	
WEAR The iron level is severe. Gear wear is indicated. Iron ppm AS Chromium ppm AS Nickel ppm AS Silver ppm AS Silver ppm AS Aluminum ppm AS Lead ppm AS Copper ppm AS Vanadium ppm AS White Metal scalar *V Yellow Metal scalar *V Yellow Metal scalar *V Yellow Metal scalar *V Nellow Metal scalar *V Nellow Metal scalar *V Debris scalar *V Debris scalar *V Debris scalar *V Debris scalar *V Sitt scalar *V Debris scalar *V Sitt scalar *V Sand/Dirt scalar *V Sitt scalar *V Debris scalar *V Sitt scalar *V Scand/Dirt scalar *V Appearance scalar *V Scalar *V Appearance scalar *V	Client Info		Not Changd	Not Changd	
The iron level is severe. Gear wear is indicated. The iron level is severe. Gear wear is indicated. The iron level is severe. Gear wear is indicated. Titanium ppm AS Silver ppm AS Aluminum ppm AS Aluminum ppm AS Copper ppm AS Tin ppm AS Vanadium ppm AS Vallow Metal scalar "V Vellow Metal scalar "V Vellow Metal scalar "V Vallow Metal scalar "V Vallow Metal scalar "V Vater With the scalar "V Debris scalar "V Sand/Dirt scalar "V Sand/Dirt scalar "V Appearance scalar "V Codor scalar "V Codor scalar "V Emulsified Water scalar "V Codor scalar "V Emulsified Water scalar "V Appearance scalar "V Codor scalar "V Appearance scalar "V	Client Info		N/A	N/A	
The iron level is severe. Gear wear is indicated. Chromium ppm AS Nickel ppm AS Titanium ppm AS Silver ppm AS Aluminum ppm AS Aluminum ppm AS Copper ppm AS Tin ppm AS Vanadium ppm AS Valver VA Va			SEVERE	SEVERE	
Nickel ppm AS Titanium ppm AS Silver ppm AS Aluminum ppm AS Copper ppm AS Copper ppm AS Tin ppm AS Vanadium ppm AS Valow Metal scalar *V Potassium ppm AS Water Wo Silt scalar *V Debris scalar *V Debris scalar *V Appearance scalar *V Codor scalar *V Appearance scalar *V Sand/Dirt scalar *V Appearance scalar *V Sand/Dirt scalar *V Appearance scalar *V	STM D5185m :	>500	8385	5531	
Nickel ppm AS Titanium ppm AS Silver ppm AS Aluminum ppm AS Aluminum ppm AS Lead ppm AS Copper ppm AS Copper ppm AS Vanadium ppm AS Silicon ppm AS Vater Wo Vater Wo Vater Wo Vater Wo Vater Valuminum Vater V	STM D5185m	>10	8 4	5 2	
Silver ppm AS Aluminum ppm AS Lead ppm AS Copper ppm AS Copper ppm AS Vanadium ppm AS White Metal scalar *V Yellow	STM D5185m :	>10	2 0	10	
Aluminum ppm AS Lead ppm AS Copper ppm AS Tin ppm AS Vanadium ppm AS White Metal scalar *V Yellow Metal scalar *V Yellow Metal scalar *V Yellow Goarse dirth ingress. Silicon ppm AS Water Water Water Water Silt scalar *V Debris scalar *V Debris scalar *V Sand/Dirt scalar *V Appearance scalar *V Appearance scalar *V Sand/Dirt scalar *V Sand/Dirt scalar *V Appearance scalar *V Sand/Dirt scalar *V Appearance	STM D5185m		26	<u> </u>	
Lead ppm AS Copper ppm AS Tin ppm AS Vanadium ppm AS White Metal scalar *V Yellow Metal scalar *V Yellow Metal scalar *V Yellow Contamination Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. Silicon ppm AS Water Work Silt scalar *V Debris scalar *V Sand/Dirt scalar *V Sand/Dirt scalar *V Odor scalar *V Odor scalar *V Odor scalar *V Emulsified Water scalar *V Sodium ppm AS Sodium ppm AS Boron ppm AS Molybdenum ppm AS Molybdenum ppm AS Manganese ppm AS Manganese ppm AS Magnesium ppm AS Magnesium ppm AS	STM D5185m		0	0	
Copper ppm AS Tin ppm AS Vanadium ppm AS White Metal scalar *V Yellow Metal scalar *V Water Silicon ppm AS Water Silt scalar *V Debris scalar *V Sand/Dirt scalar *V Appearance scalar *V Appearance scalar *V Odor scalar *V The oil is no longer serviceable as a result of the abnormal and/or severe wear. Sodium ppm AS Boron ppm AS Molybdenum ppm AS Manganese ppm AS Manganese ppm AS Magnesium ppm AS Calcium ppm AS Calcium ppm AS	STM D5185m :	>25	▲ 362	▲ 224	
Tin ppm AS Vanadium ppm AS White Metal scalar *V Yellow Metal ppm AS Silicate (coarse dirt) ingress. Silicon ppm AS Water With Silit scalar *V Debris scalar *V Debris scalar *V Sand/Dirt scalar *V Sand/Dirt scalar *V Odor scalar *V Odor scalar *V Debris scalar *V	STM D5185m	>25	1	1	
Vanadium ppm AS White Metal scalar *V Yellow Metal ppm AS Yellow Metal ppm A	STM D5185m	>50	19	12	
White Metal scalar *V Yellow Metal scalar *V Silicon ppm AS Potassium ppm AS Water With Silt scalar *V Debris scalar *V Debris scalar *V Appearance scalar *V Odor scalar *V Odor scalar *V Emulsified Water scalar *V Sodium ppm AS Sodium ppm AS Sodium ppm AS Boron ppm AS Sodium ppm AS Manganese ppm AS Manganese ppm AS Manganese ppm AS Manganese ppm AS Magnesium ppm AS Manganese ppm AS	STM D5185m	>10	0	2	
CONTAMINATION Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. Silicon ppm AS Water With Silt scalar *V Debris scalar *V Sand/Dirt scalar *V Appearance scalar *V Odor scalar *V Emulsified Water scalar *V Emulsified Water scalar *V Sodium ppm AS Boron ppm AS Boron ppm AS Boron ppm AS Molybdenum ppm AS Molybdenum ppm AS Manganese ppm AS Manganese ppm AS Magnesium ppm AS Magnesium ppm AS	STM D5185m		<1	<1	
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. Silicon ppm AS Potassium ppm AS Water Silt scalar *V Debris scalar *V Sand/Dirt scalar *V Appearance scalar *V Odor scalar *V Emulsified Water scalar *V Sodium ppm AS Boron ppm AS Boron ppm AS Molybdenum ppm AS Molybdenum ppm AS Magnesium ppm AS		NONE	MODER	LIGHT	
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. Potassium Water With Silt Scalar *V Debris Scalar *V Sand/Dirt Scalar *V Appearance Scalar *V Odor Scalar *V Odor Scalar *V Emulsified Water Scalar *V Emulsified Water Scalar *V Sodium Scalar *V Emulsified Water Scalar	Visual I	NONE	NONE	NONE	
Silicate (coarse dirt) ingress. Water Silt scalar *V Debris scalar *V Appearance scalar *V Odor scalar *V Emulsified Water scalar *V Sodium ppm AS Boron ppm AS Boron ppm AS Molybdenum ppm AS Molybdenum ppm AS Manganese ppm AS Manganese ppm AS Magnesium ppm AS Calcium ppm AS	STM D5185m :	>75	1504	▲ 861	
Silit scalar *V Debris scalar *V Appearance scalar *V Odor scalar *V Emulsified Water scalar *V Sodium ppm AS Boron ppm AS Barium ppm AS Molybdenum ppm AS Manganese ppm AS Magnesium ppm AS Calcium ppm AS Calcium ppm AS	STM D5185m :	>20	94	71	
Debris scalar *V Sand/Dirt scalar *V Appearance scalar *V Odor scalar *V Codor scalar *V Emulsified Water scalar *V Sand/Dirt scalar *V Odor scalar *V Sodium ppm AS Boron ppm AS Boron ppm AS Barium ppm AS Molybdenum ppm AS Magnesium ppm AS Magnesium ppm AS Calcium ppm AS	VC Method	>0.2	NEG	NEG	
Sand/Dirt scalar *V Appearance scalar *V Odor scalar *V Emulsified Water scalar *V Sodium ppm AS Boron ppm AS Boron ppm AS Molybdenum ppm AS Molybdenum ppm AS Magnesium ppm AS Magnesium ppm AS Calcium ppm AS	Visual I	NONE	NONE	NONE	
Appearance scalar *V Odor scalar *V Emulsified Water scalar *V FLUID CONDITION The oil is no longer serviceable as a result of the abnormal and/or severe wear. Boron ppm AS Barium ppm AS Molybdenum ppm AS Manganese ppm AS Magnesium ppm AS Calcium ppm AS	Visual I	NONE	NONE	NONE	
Calcium ppm AS' Odor scalar *V Emulsified Water scalar *V Emulsified Water scalar *V Sodium ppm AS' Boron ppm AS' Molybdenum ppm AS' Magnesium ppm AS'	Visual I	NONE	NONE	NONE	
FLUID CONDITION Sodium ppm AS' Boron ppm AS' Barium ppm AS' Molybdenum ppm AS' Magnesium ppm AS' Magnesium ppm AS' Calcium ppm AS' Calcium ppm AS'		NORML	NORML	NORML	
FLUID CONDITION The oil is no longer serviceable as a result of the abnormal and/or severe wear. Sodium ppm AS' Boron ppm AS' Molybdenum ppm AS' Manganese ppm AS' Magnesium ppm AS' Calcium ppm AS'	Visual I	NORML	NORML	NORML	
The oil is no longer serviceable as a result of the abnormal and/or severe wear. Boron ppm AS' Barium ppm AS' Molybdenum ppm AS' Manganese ppm AS' Magnesium ppm AS' Calcium ppm AS'	Visual :	>0.2	NEG	NEG	
Barium ppm AS Molybdenum ppm AS Manganese ppm AS Magnesium ppm AS Calcium ppm AS	STM D5185m		64	42	
Molybdenum ppm AS Manganese ppm AS Magnesium ppm AS Calcium ppm AS	STM D5185m	111	50	33	
ManganeseppmASMagnesiumppmASCalciumppmAS	STM D5185m	0.0	3	0	
MagnesiumppmASCalciumppmAS	STM D5185m	0.9	10	8	
Calcium ppm AS	STM D5185m		58	35	
	STM D5185m		54	31	
	STM D5185m		210	166	
	STM D5185m			529	
· · ·			157		
Sulfur ppm AS	STM D5185m 2	20179	18086	13837	
Zinc ppm AS	STM D5185m (STM D	0.0 0.9 0.0 39 93 920	3 10 58 54 210 516 157	0 8 35 31 166 529 119	

Visc @ 40°C

189

ASTM D445 333





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: ASC0001612 : 06076171 : 10858262 Test Package : MOBCE

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 31 Jan 2024 Recieved Diagnosed : 02 Feb 2024 : Sean Felton Diagnostician

TRIANGLE GRADING AND PAVING INC 1521 Huffman Mill Rd

BURLINGTON, NC US 27216

F: (336)584-0145

Contact: ADAM CORBETT

wacorbett@trianglegradingpaving.com T:

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)