OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

UOM Method

Limit/Abn Current

NORMAL SEVERE NORMAL

History2

History1

Machine Id

KOMATSU 5696-15

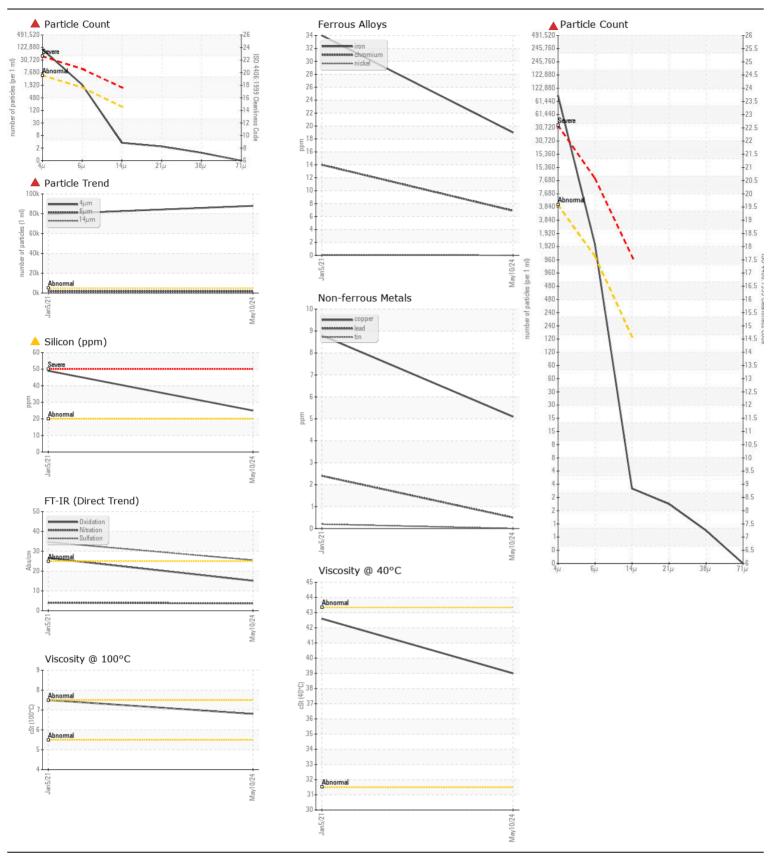
Hydraulic System

RECOMMENDATION

CENTRAL CANADA INDUSTRIES DRIVETRAIN 10W (200 LTR)

RECOMMENDATION	1031	OOW	Ollaria	LIIIIU/NOII	Current	Thatory	1 IIStOT y Z
Check seals and/or filters for points of contaminant entry. We advise that you check all areas where dirt can enter the system. The air	Sample Number		Client Info		TR02637647	TR02408061	
	Sample Date		Client Info		10 May 2024	05 Jan 2021	
	Machine Age	hrs	Client Info		3754	3602	
breather requires service. If unrated, we recommend that you replace	Oil Age	hrs	Client Info		152	0	
with a suitable micron rated and/or desiccant air breather. If rated, we	Filter Age	hrs	Client Info		152	0	
recommend that you service/replace the breather. We recommend you	Oil Changed		Client Info		Not Changd	Not Changd	
service the filters on this component. Resample in 30-45 days to	Filter Changed		Client Info		Not Changd	Not Changd	
monitor this situation.	Sample Status				SEVERĚ	SEVERE	
WEAR	Iron	ppm	ASTM D5185(m)	>20	19	4 34	
WEAT	Chromium	ppm	ASTM D5185(m)		7	<u> </u>	
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)	>10	0	<1	
	Titanium	ppm	ASTM D5185(m)		<1	1	
	Silver	ppm	ASTM D5185(m)		0	0	
	Aluminum	ppm	ASTM D5185(m)	\10	8	<u> 13</u>	
	Lead		ASTM D5185(m)		<1	2	
	Copper	ppm	ASTM D5185(III)		5	9	
		ppm				-	
	Tin	ppm	ASTM D5185(m)	>10	0	<1	
	Vanadium	ppm	ASTM D5185(m)	NIONIE	0	<1	
	White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
CONTANINATION	0.11.		AOTM DE405()	00		40	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>20	<u>^</u> 25	<u>4</u> 9	
The section of the boundary of all the section of t	Potassium	ppm	ASTM D5185(m)		16	3	
There is a high amount of silt (particulates < 14 microns in size)	Water		WC Method	>0.1	NEG	NEG	
present in the oil. Elemental levels of silicon (Si) and aluminum (Al)	Soot %	%	ASTM D7844*		0	0	
indicate alumina-silicate (coarse dirt) ingress.	Nitration	Abs/cm	ASTM D7624*		3.7	4.0	
	Sulfation	Abs/.1mm	ASTM D7415*		25.5	34.6	
	Particles >4µm		ASTM D7647	>5000	A 87933	1 79665	
	Particles >6µm		ASTM D7647	>1300	1773	1933	
	Particles >14µm		ASTM D7647	>160	3	5	
	Particles >21µm		ASTM D7647	>40	2	2	
	Particles >38µm		ASTM D7647	>10	1	0	
	Particles >71µm		ASTM D7647	>3	0	0	
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	2 4/18/9	2 3/18/10	
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris	scalar	Visual*	NONE	VLITE	NONE	
	Sand/Dirt		Visual*	NONE	NONE	NONE	
	Appearance	scalar	Visual*	NORML	NORML	NORML	
	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	
<u></u>							
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		5	4	
I EOID OONDITION	Boron	ppm	ASTM D5185(m)		2	2	
The oil is still serviceable provided that the contaminant(s) can be	Barium	ppm	ASTM D5185(m)		- <1	_ <1	
reduced to acceptable levels.	Molybdenum	ppm	ASTM D5185(m)		2	5	
	Manganese	ppm	ASTM D5185(m)		<1	<1	
	Magnesium	ppm	ASTM D5185(m)		146	276	
	Calcium		ASTM D5185(m)		1854	673	
		ppm					
	Phosphorus	ppm	ASTM D5185(m)		815	600	
	Zinc	ppm	ASTM D5185(m)		951	742	
	Culture		ASTM D5185(m)		3069	2552	
	Sulfur	ppm				00 -	
	Oxidation	Abs/.1mm	ASTM D7414*		15.1	26.5	
	Oxidation Visc @ 40°C	Abs/.1mm cSt	ASTM D7414* ASTM D7279(m)		15.1 39.0	42.6	
	Oxidation	Abs/.1mm cSt cSt	ASTM D7414* ASTM D7279(m) ASTM D7279(m)		15.1		

Test





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number : 5786809

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : TR02637647 : 02637647

Received **Tested**

Diagnosed

: 27 May 2024 : 30 May 2024

: 30 May 2024 - Kevin Marson

Test Package: MOB 2 (Additional Tests: FT-IR, KV100, VI) To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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) T: (807)475-5951 F: (807)475-8619

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WILCO CONTRACTORS

Contact: David Cramer