WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE NORMAL

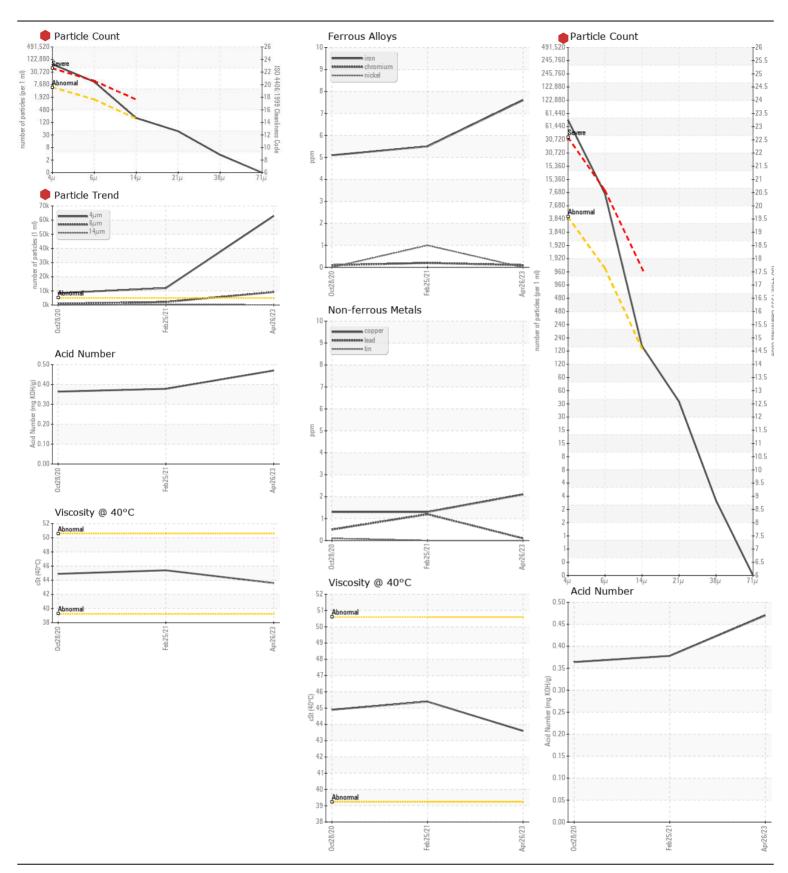
Machine Id

4140027

Component Hydraulic System

Hydraulic System							
RANDO (GAL) RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TECOMMENDATION	Sample Number	OOW	Client Info	LITTIU/ NOTI	WC0774619	WC0531546	WC0485520
Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation. Please specify the component make and model	Sample Date		Client Info		26 Apr 2023	25 Feb 2021	28 Oct 2020
	Machine Age	hrs	Client Info		4192	2264	1939
	Oil Age	hrs	Client Info		0	2264	1939
	Filter Age	hrs	Client Info		0	330	1939
	Oil Changed	1110	Client Info		Not Changd	N/A	N/A
with your next sample.	Filter Changed		Client Info		Changed	N/A	N/A
νιτι γου πελι σαπιριε.	Sample Status		Olichi Illio		SEVERE	ABNORMAL	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	>20	8	6	5
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>10	0	1	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m	>10	0	2	1
	Lead	ppm	ASTM D5185m	>10	<1	1	<1
	Copper	ppm	ASTM D5185m	>75	2	1	1
	Tin	ppm	ASTM D5185m	>10	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	2	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	6	3	2
	Potassium	ppm	ASTM D5185m	>20	1	0	<1
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	>5000	62905	<u> </u>	8486
	Particles >6µm		ASTM D7647	>1300	4 9156	<u> </u>	916
	Particles >14µm		ASTM D7647	>160	170	△ 309	54
	Particles >21µm		ASTM D7647	>40	40	<u> </u>	18
	Particles >38µm		ASTM D7647	>10	3	<u>^</u> 23	1
	Particles >71μm		ASTM D7647		0	3	0
	Oil Cleanliness		ISO 4406 (c)		23/20/15	<u>^</u> 21/18/15	2 0/17/13
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	LIGHT	LIGHT	LIGHT
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	<1	2
	Boron	ppm	ASTM D5185m		4	0	1
The AN level is acceptable for this fluid. The oil is still serviceable	Barium	ppm	ASTM D5185m		0	0	0
provided that the contaminant(s) can be reduced to acceptable levels.	Molybdenum	ppm	ASTM D5185m		2	0	<1
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		6	0	<1
	Calcium	ppm	ASTM D5185m		93	147	130
	Phosphorus	ppm	ASTM D5185m		415	568	553
	Zinc	ppm	ASTM D5185m		347	287	259
	Sulfur	ppm	ASTM D5185m		1065	938	910
	Sulfur Acid Number (AN)	ppm mg KOH/g			1065 0.47	938 0.378	0.364

Contact/Location: SHOP MANAGER - HAYALP





Certificate L2367

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

: WC0774619 : 05838358 : 10457161 Test Package : CONST

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 04 May 2023 Recieved Diagnosed : 05 May 2023 : Wes Davis Diagnostician

KELLER - NORTH AMERICA 510 NINE NORTH COURT ALPHARETTA, GA US 30004-2961 Contact: SHOP MANAGER SRLEWIS@KELLER-NA.COM T: (770)442-1801

* - 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: (770)442-8344