WEAR CONTAMINATION FLUID CONDITION

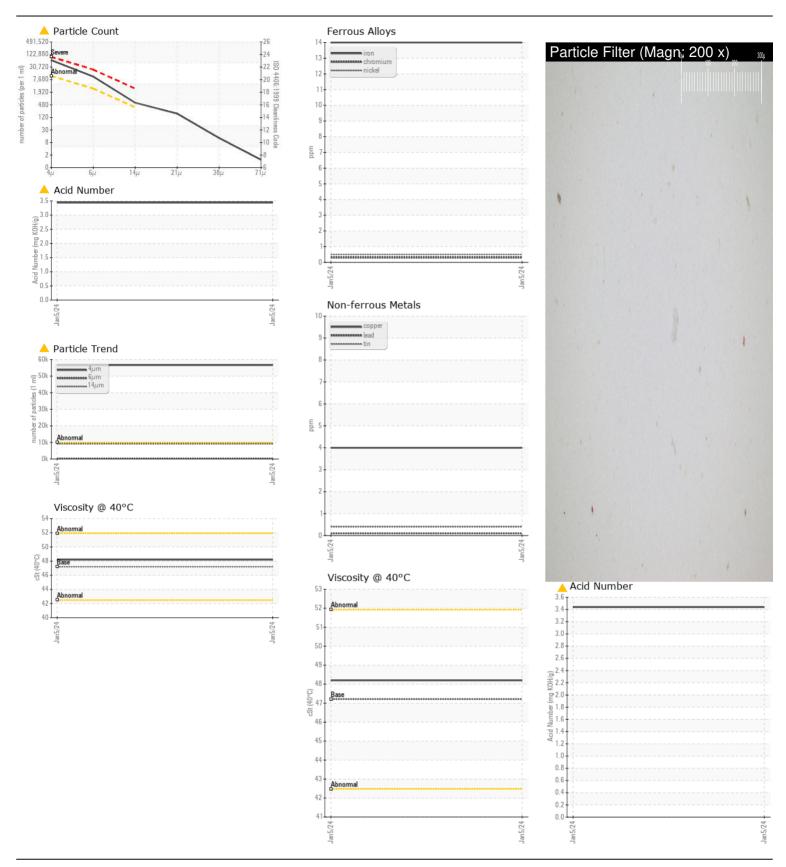
NORMAL ABNORMAL ABNORMAL

Machine Id MK HPU

Component Hydraulic System

SHELL NATURELLE S2 HYDRAULIC FLUID 46 (--- GAL)

DECOMMENDATION	Toct	LIONA	Mothad	Limit/Ahn	Current	History	Higtory?
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current PH0001872	History1	History2
The oil is near the end of it`s useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.	Sample Number Sample Date		Client Info		05 Jan 2024		
	Machine Age	hrs	Client Info		05 Jan 2024 0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed	1113	Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status		Ollotti IIIIo		ABNORMAL		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>20	14		
	Chromium	ppm	ASTM D5185m	>20	<1		
	Nickel	ppm	ASTM D5185m	>20	<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>20	2		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		4		
	Tin	ppm	ASTM D5185m	>20	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 1E	_1		
CONTAMINATION	Potassium	ppm	ASTM D5185m		<1 2		
There is a high amount of particulates present in the oil.	Water	ppm	WC Method		NEG		
	Particles >4µm		ASTM D7647		▲ 56687		
	Particles >6µm		ASTM D7647		▲ 9388		
	Particles >0µm		ASTM D7647		▲ 528		
	Particles >21μm		ASTM D7647		<u>▲</u> 159		
	Particles >38µm		ASTM D7647		11		
	Particles >71µm		ASTM D7647		1		
	Oil Cleanliness		ISO 4406 (c)		<u>^</u> 23/20/16		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	LIGHT		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.05	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		11		
The AN level is at the top-end of the recommended limit.	Boron	ppm	ASTM D5185m		2		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		<1		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		<1		
	Calcium	ppm	ASTM D5185m		5		
	Phosphorus	ppm	ASTM D5185m		211		
	Zinc	ppm	ASTM D5185m		0		
	Sulfur	ppm	ASTM D5185m		2016		
	Acid Number (AN)	mg KOH/g	ASTM D8045	47.0	△ 3.44		
	Visc @ 40°C	cSt	ASTM D445	47.2	48.2		







Certificate L2367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 **Unique Number**

: PH0001872 : 06058727 : 10830109

Recieved Diagnosed

: 11 Jan 2024 Diagnostician : Jonathan Hester

: 15 Jan 2024

Test Package : PLANT (Additional Tests: PrtFilter) 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) **ALBANY ENGINEERING** 5 WASHINGTON SQ

ALBANY, NY US 12205

Contact: CRAIG POILLON

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