WEAR CONTAMINATION FLUID CONDITION

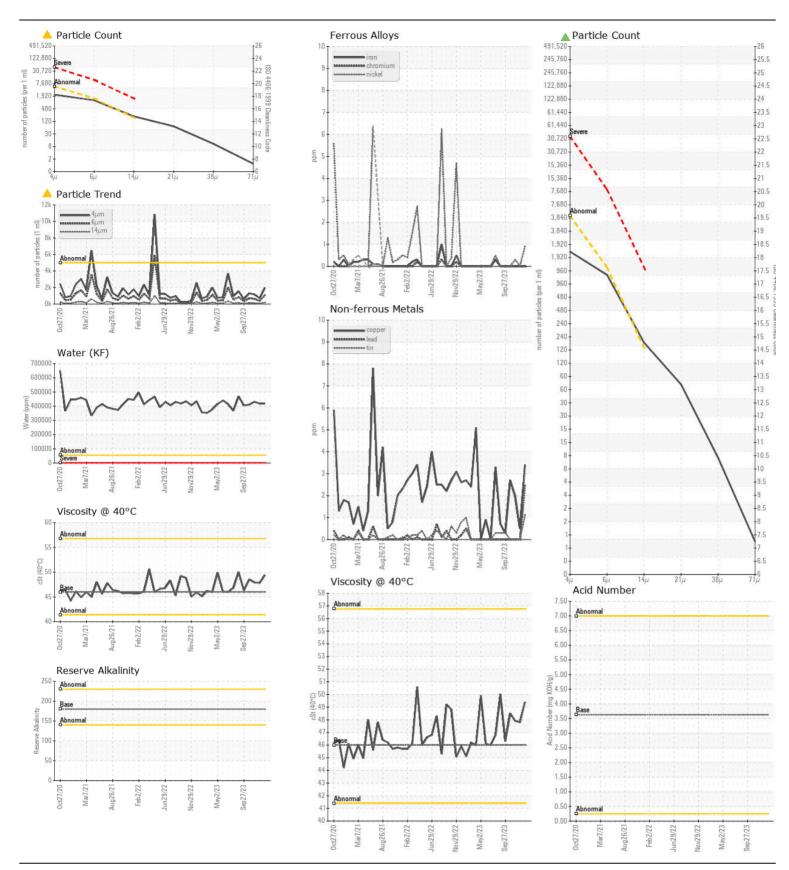
NORMAL
ATTENTION
NORMAL

MELT SHOP - HYDRAULIC
Machine Id
MELT SHOP CED VESSEL CART

Component Tank Hydraulic System

FIRE-RESISTANT FLUID ISO 46 (290 QTS)

FIRE-RESISTANT FLUID ISO 46 (290 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		RP0039322	RP0038549	RP0038064
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		31 Jan 2024	04 Jan 2024	06 Dec 2023
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ATTENTION	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>20	0	0	0
	Chromium	ppm	ASTM D5185m		0	0	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	<1	0	<1
	Lead	ppm	ASTM D5185m		2	0	0
	Copper	ppm	ASTM D5185m		3	<1	2
	Tin	ppm	ASTM D5185m	>20	1	0	0
	Vanadium	ppm	ASTM D5185m	7 = 0	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>15	<1	0	<1
	Potassium	ppm	ASTM D5185m	>20	4	0	1
There is a moderate amount of particulates present in the oil.	Water	%	ASTM D6304	>55	41.8	41.7	43.1
	ppm Water	ppm	ASTM D6304	>55000	418000	417000	431000
	Particles >4µm		ASTM D7647	>5000	1966	705	1148
	Particles >6µm		ASTM D7647	>1300	1071	384	626
	Particles >14μm		ASTM D7647	>160	<b>182</b>	65	106
	Particles >21µm		ASTM D7647	>40	<b>▲</b> 61	22	36
	Particles >38µm		ASTM D7647	>10	9	3	6
	Particles >71µm		ASTM D7647	>3	1	0	1
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>1</b> 8/17/15	17/16/13	17/16/14
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	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	>55	0.2%	0.2%	0.2%
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	0	<1
	Boron	ppm	ASTM D5185m	5	0	0	0
The pH level of this fluid is within the acceptable limits @ 10.0. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m	5	0	0	0
	Molybdenum	ppm	ASTM D5185m	5	<1	0	0
	Manganese	ppm	ASTM D5185m		2	0	<1
	Magnesium	ppm	ASTM D5185m	5	1	0	<1
	Calcium	ppm	ASTM D5185m	50	1	0	0
	Phosphorus	ppm	ASTM D5185m	175	3	0	3
	Zinc	ppm	ASTM D5185m	62	5	<1	0
	рН	Scale 0-14	ASTM D1287		10.0	9.00	9.0
	Visc @ 40°C	cSt	ASTM D445	46	49.4	47.8	47.9







Certificate L2367

Laboratory Sample No. **Lab Number** 

: RP0039322 : 06077760 Unique Number : 10859851

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

: 07 Feb 2024 Diagnosed

: 07 Feb 2024 - Doug Bogart

: 01 Feb 2024

Test Package: IND 2 (Additional Tests: pH, ReserveAlk) To discuss this sample report, contact Customer Service at 1-800-237-1369.

US 36513 Contact: MARIO JOHNSON Mario.johnson@outokumpu.com T: (251)321-4105

**OUTOKUMPU STAINLESS USA** 

\* - 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) **HWY 43 N** 

CALVERT, AL