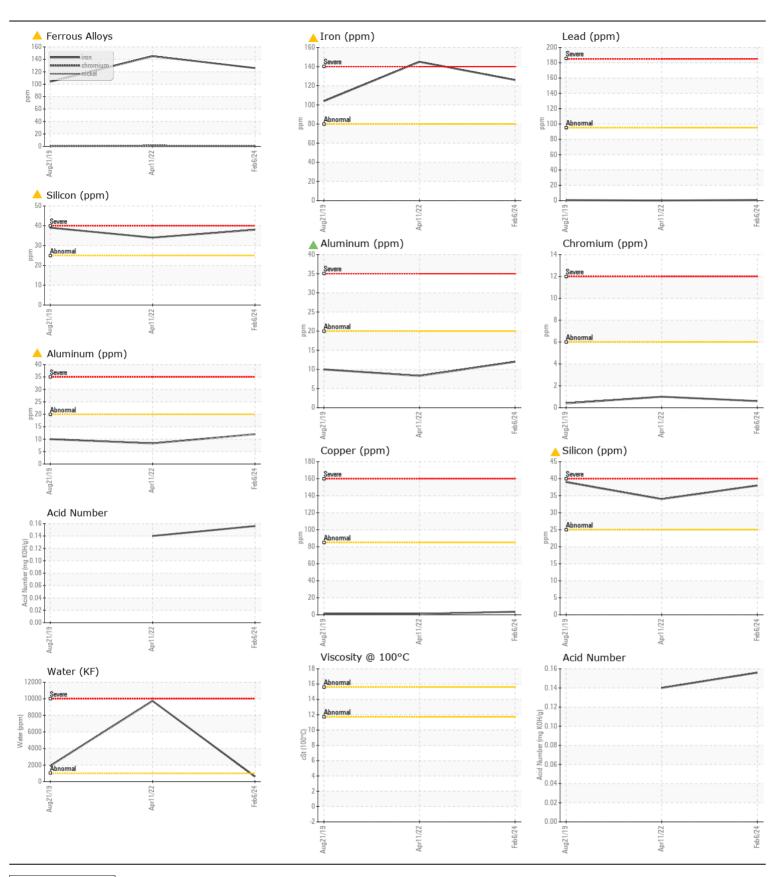


WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL ABNORMAL NORMAL**

Machine Id

RASA 60 IN MTBM 60 IN RASA MTBM

Component 3 Gear Motor							
{not provided} (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number	00111	Client Info	LIIII07 IOII	DC0021925	DC0018399	DC0000653
	Sample Date		Client Info		06 Feb 2024	11 Apr 2022	21 Aug 2019
	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	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	\80	<u> </u>	<u> </u>	<u> </u>
Gear wear is indicated.	Chromium	ppm	ASTM D5185m		<1	1	<1
	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		2	1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		12	A 8	1 0
	Lead	ppm	ASTM D5185m		<1	0	<1
	Copper	ppm	ASTM D5185m		4	1	1
	Tin	ppm	ASTM D5185m		0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	VLITE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAINMATION							
CONTAMINATION Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. There is a moderate amount of visible silt present in the sample.	Silicon	ppm	ASTM D5185m		△ 38	<u></u> 34	△ 39
	Potassium	ppm	ASTM D5185m		3	2	2
	Fuel	0/	WC Method		<1.0	<1.0	<1.0
	Water	%	ASTM D6304		0.062	▲ 0.974 ▲ 0.740	△ 0.191
	ppm Water	ppm	ASTM D6304	>1000	620 NEO	▲ 9740	▲ 1910
	Glycol Silt	cooler	WC Method	NONE	NEG MODER	NEG	NEG A HEAVY
	Debris	scalar	*Visual *Visual	NONE	_	MODER	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE NONE	NONE	NONE
	Appearance	scalar scalar	*Visual	NORML	NORML	▲ HAZY	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.1	0.2%	0.2%	0.2%
							0.270
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	0	<1
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		0	4	1
	Barium	ppm	ASTM D5185m		0	0	<1
	Molybdenum	ppm	ASTM D5185m		0	<1	<1
	Manganese	ppm	ASTM D5185m		2	1	<1
	Magnesium	ppm	ASTM D5185m		0	5	2
	Calcium	ppm	ASTM D5185m		35	98	75
	Phosphorus	ppm	ASTM D5185m		40	158	150
	Zinc	ppm	ASTM D5185m		25	62	31
	Sulfur	ppm	ASTM D5185m		12501	12181	10738
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.156	0.14	
	Visc @ 40°C	cSt	ASTM D445		150	146	162





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DC0021925 Lab Number : 06084932

Unique Number : 10872377

: 12 Feb 2024 **Tested** Diagnosed Test Package : MOB 2 (Additional Tests: KF, KV40)

: 12 Feb 2024 - Don Baldridge

Received

: 09 Feb 2024

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. **SECA UNDERGROUND**

8228 FISCHER RD, PO BOX 656 DUNDALK, MD US 21222

Contact: SEAN-PAUL WARNICK seanpaul.warnick@seca-tunnel.com

T: (443)740-1527

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)