**WEAR** CONTAMINATION **FLUID CONDITION** 

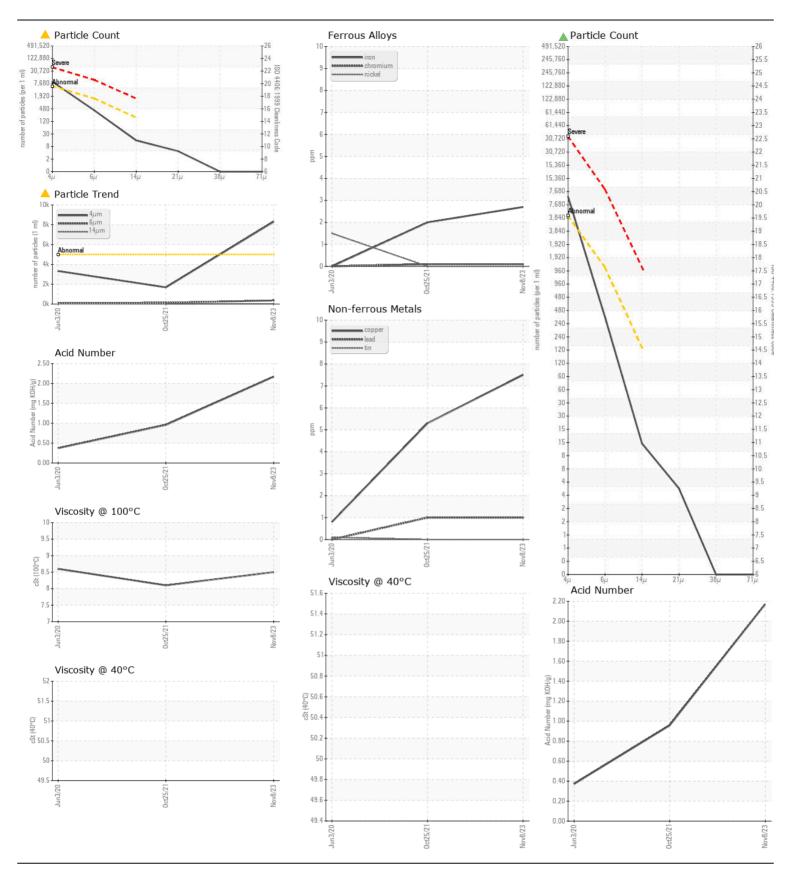
**NORMAL ATTENTION NORMAL** 

**OIL ANALYSIS REPORT** 

## WEILER 0033

Component Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR06062606	TR05444416	TR05010398
No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		08 Nov 2023	25 Oct 2021	03 Jun 2020
	Machine Age	hrs	Client Info		400	204	64
	Oil Age	hrs	Client Info		196	164	64
	Filter Age	hrs	Client Info		196	164	64
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>20	3	2	0
	Chromium	ppm	ASTM D5185m	>10	<1	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	0	0	2
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m		0	<1	1
	Aluminum	ppm	ASTM D5185m	>10	1	2	0
	Lead	ppm	ASTM D5185m	>10	1	1	0
	Copper	ppm	ASTM D5185m	>75	8	5	<1
	Tin	ppm	ASTM D5185m	>10	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	15	14	0
CONTAMINATION	Potassium	ppm	ASTM D5185m	>20	3	2	<1
There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.	Water	le le	WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647		<b>8303</b>	1684	3330
	Particles >6µm		ASTM D7647		356	124	95
	Particles >14µm		ASTM D7647		13	8	22
	Particles >21µm		ASTM D7647	>40	4	3	5
	Particles >38µm		ASTM D7647	>10	0	0	0
	Particles >71µm		ASTM D7647	>3	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>2</b> 0/16/11	18/14/10	19/14/1
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		8	2	25
2012 CONSTITUTE	Boron	ppm	ASTM D5185m		140	119	<1
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		<1	1	<1
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		13	11	2
	Calcium	ppm	ASTM D5185m		4946	3872	10
	Phosphorus	ppm	ASTM D5185m		1384	1266	40
	Zinc	ppm	ASTM D5185m		1756	1544	9
	Sulfur	ppm	ASTM D5185m		4802	4283	224
	Acid Number (AN)	mg KOH/g	ASTM D8045		2.17	0.958	0.372
	Visc @ 40°C	cSt	ASTM D445		50.5		
	Visc @ 100°C	cSt	ASTM D445		8.5	8.1	8.6
	Viscosity Index (VI)	Scale	<b>ASTM D2270</b>		144		





Certificate L2367

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

: 06062606

: TR06062606 : 10833988

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 17 Jan 2024 : 19 Jan 2024 Diagnosed

Diagnostician : Jonathan Hester

Test Package : MOB 2 ( Additional Tests: 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)

RANDALL COUNTY ROAD DEPT.

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