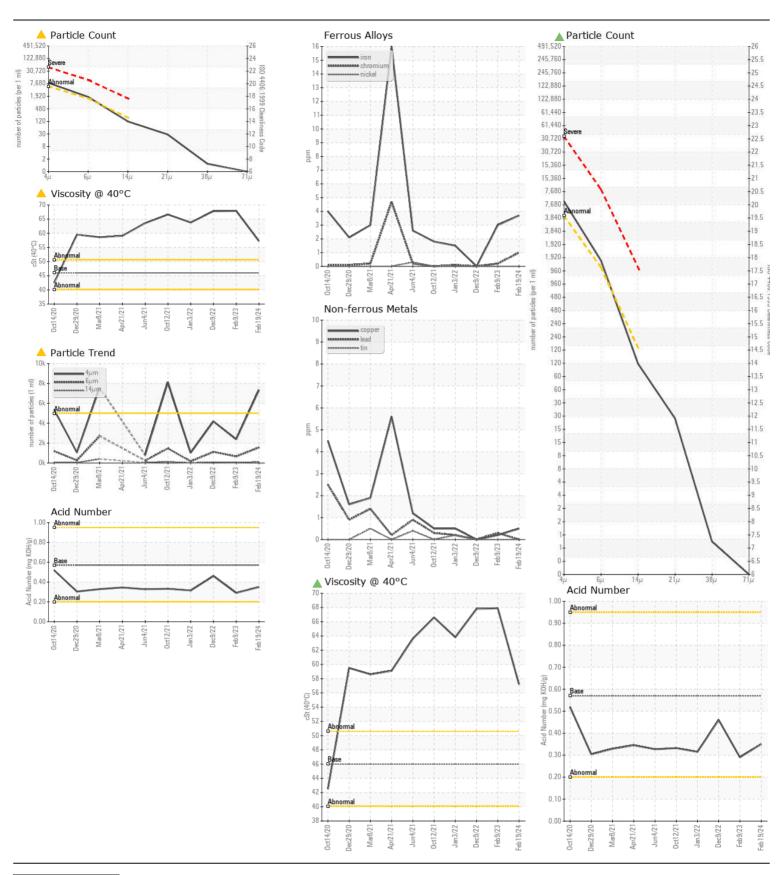
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL ATTENTION ATTENTION** 

## TPR-Houston Port Machine Id 6354 6354

Component Hydraulic System

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Test Sample Number	UOM	Method Client Info	Limit/Abn	Current DJJ0023557	History1 DJJ0018990	History2 DJJ0010077
	Machine Age	hrs	Client Info		17614	13985	13426
	Oil Age	hrs	Client Info		1000	0	0
	Filter Age	hrs	Client Info		1000	0	0
	Oil Changed		Client Info		Changed	Changed	Not Change
	Filter Changed		Client Info		Changed	N/A	N/A
	Sample Status				ATTENTION	NORMAL	NORMAL
	WEAR	Iron	ppm	ASTM D5185m	>20	4	3
	Chromium	ppm	ASTM D5185m	>10	1	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	0	0	<1
	Lead	ppm	ASTM D5185m	>10	0	<1	0
	Copper	ppm	ASTM D5185m	>75	<1	<1	0
	Tin	ppm	ASTM D5185m	>10	0	0	0
	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	3	3	2
	Potassium	ppm	ASTM D5185m	>20	0	0	0
There is a moderate amount of particulates present in the oil.	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	>5000	<b>7329</b>	2384	4183
	Particles >6µm		ASTM D7647	>1300	<b>1558</b>	662	1115
	Particles >14μm		ASTM D7647	>160	105	47	81
	Particles >21µm		ASTM D7647	>40	25	10	18
	Particles >38µm		ASTM D7647	>10	1	2	1
	Particles >71μm		ASTM D7647	>3	0	1	0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>2</b> 0/18/14	18/17/13	19/17/1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	VLITE	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		2	<1	0
	Boron	ppm	ASTM D5185m	5	0	0	0
The oil viscosity is higher than normal. The AN level is acceptable for this fluid.	Barium	ppm	ASTM D5185m	5	0	0	0
	Molybdenum	ppm	ASTM D5185m	5	<1	1	1
	Manganese	ppm	ASTM D5185m		0	0	0
	Magnesium	ppm	ASTM D5185m	25	0	7	4
	Calcium	ppm	ASTM D5185m	200	63	65	68
	Phosphorus	ppm	ASTM D5185m	300	309	332	348
	Zinc	ppm	ASTM D5185m	370	369	406	448
	Sulfur	ppm		2500	1603	2482	3171
	Acid Number (AN)	mg KOH/g		0.57	0.35	0.29	0.46
	Visc @ 40°C	cSt	ASTM D445	46	<b>▲</b> 57.22	67.9	67.8





Certificate L2367

Laboratory Sample No.

Lab Number : 06100069

: DJJ0023557 Unique Number: 10898299 Test Package : MOBCE

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Feb 2024 **Tested** : 28 Feb 2024

: 28 Feb 2024 - Don Baldridge Diagnosed

**TEXAS PORT RECYCLING - HOUSTON PORT** 8945 MANCHESTER ST HOUSTON, TX

US 77012 Contact: Dale Shaw

F: (713)921-5545

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

dale.shaw@tmrecycling.com T:

\* - 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)