WEAR CONTAMINATION FLUID CONDITION

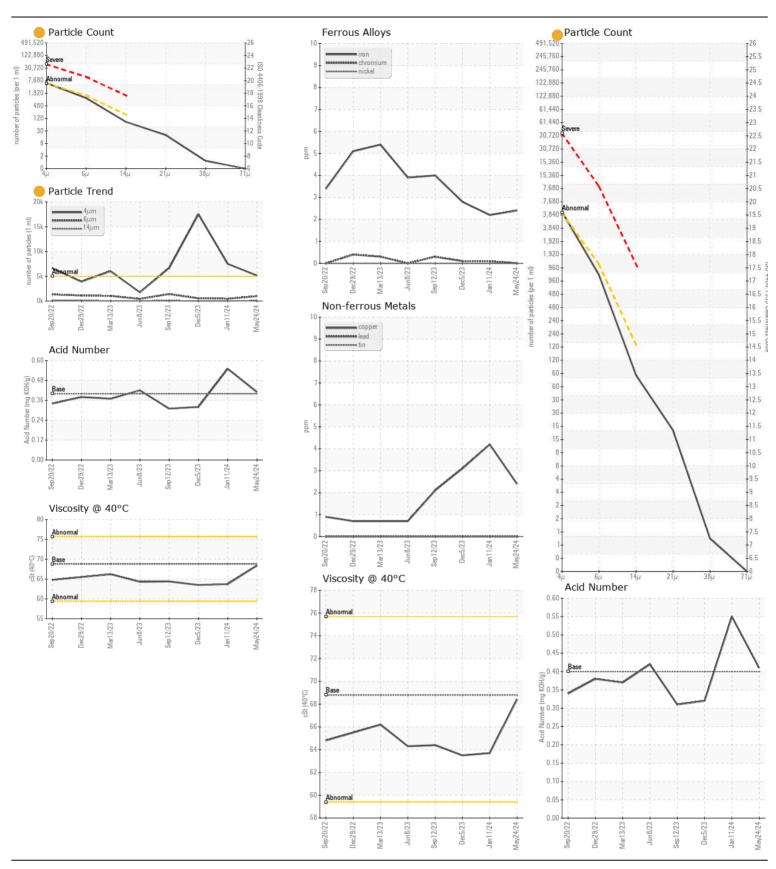
NORMAL ATTENTION NORMAL

TPR-Houston Port

452191 SENNOBOGEN 840ME 452191

Hydraulic System

ESSO NUTO H ISO 68 (115 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		DJJ0023460	DJJ0018905	DJJ0010308
	Sample Date		Client Info		24 May 2024	11 Jan 2024	05 Dec 2020
	Machine Age	hrs	Client Info		11110	10693	10520
	Oil Age	hrs	Client Info		11110	1234	10520
	Filter Age	hrs	Client Info		11110	0	10520
	Oil Changed		Client Info		Changed	Filtered	Not Change
	Filter Changed		Client Info		Changed	Changed	Not Change
	Sample Status				ATTENTION	ATTENTION	
WEAR	Iron	ppm	ASTM D5185m	>20	2	2	3
	Chromium	ppm	ASTM D5185m	>10	0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	0	0	0
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		2	4	3
	Tin	ppm	ASTM D5185m		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	2	3	3
There is a light amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m	>20	0	0	0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	>5000	5147	7500	17508
	Particles >6µm		ASTM D7647	>1300	986	463	545
	Particles >14µm		ASTM D7647	>160	72	18	10
	Particles >21µm		ASTM D7647	>40	17	4	3
	Particles >38µm		ASTM D7647	>10	1	0	0
	Particles >71µm		ASTM D7647	>3	0	0	0
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/17/13	20/16/11	<u></u>
	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		4	<1	<1
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m	0	0	0	0
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0	0	0	0
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m	5	1	4	3
	Calcium	ppm	ASTM D5185m		75	62	67
	Phosphorus	ppm	ASTM D5185m		334	267	364
	Zinc	ppm	ASTM D5185m		422	430	463
	Sulfur	ppm	ASTM D5185m		2875	2391	2719
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.41	0.550	0.32





Certificate L2367

Report Id: TEXHOUWC [WUSCAR] 06196613 (Generated: 06/03/2024 09:43:03) Rev: 1

Laboratory Sample No.

: DJJ0023460 Lab Number : 06196613 Unique Number: 11058736

Test Package : MOBCE

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 May 2024

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

Tested : 03 Jun 2024 : 03 Jun 2024 - Wes Davis Diagnosed

TEXAS PORT RECYCLING - HOUSTON PORT

8945 MANCHESTER ST HOUSTON, TX US 77012

Contact: Dale Shaw dale.shaw@tmrecycling.com

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.

T:

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