WEAR CONTAMINATION **FLUID CONDITION**

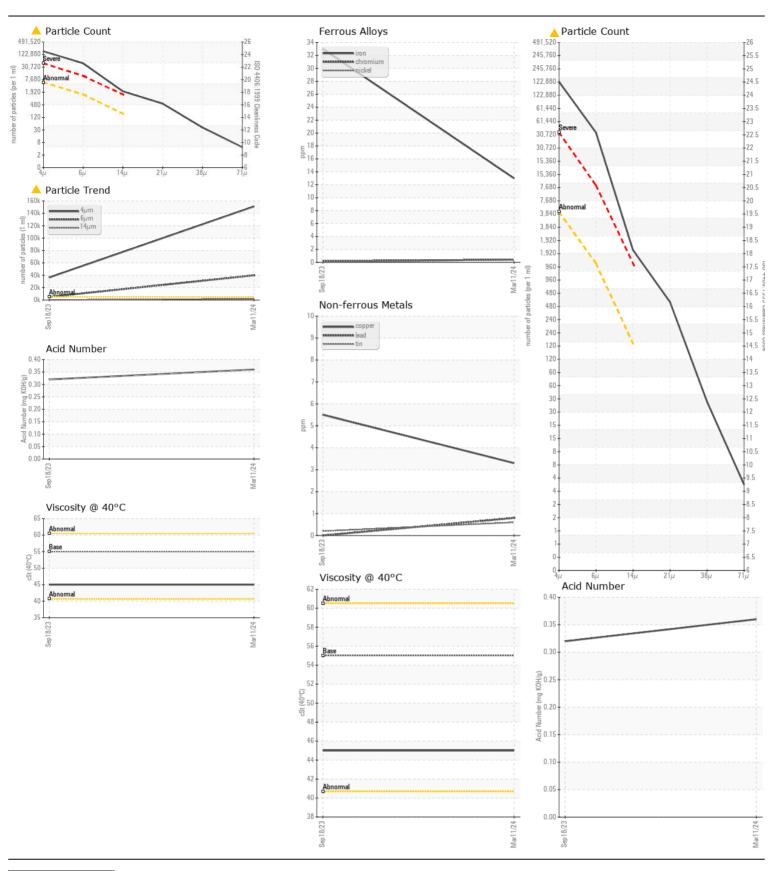
NORMAL ABNORMAL NORMAL

[687187]

TORO TX1000N 412549843

Component Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		VCP445314	VCP431344	
	Sample Date		Client Info		11 Mar 2024	18 Sep 2023	
	Machine Age	hrs	Client Info		1015	745	
	Oil Age	hrs	Client Info		500	745	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
VEAR	Iron	ppm	ASTM D5185m	>20	13	33	
V = / 11 t	Chromium	ppm	ASTM D5185m	>10	<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	<1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>10	2	<1	
	Lead	ppm	ASTM D5185m		- <1	0	
	Copper	ppm	ASTM D5185m		3	6	
	Tin	ppm	ASTM D5185m		<1	<1	
	Vanadium	ppm	ASTM D5185m	>10	<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
			• • • • • • • • • • • • • • • • • • •	TYOTYE		14014	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	2	1	
There is a high amount of particulates present in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	<1	
	Water		WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647	>5000	151039	<u></u> ∆ 36359	
	Particles >6µm		ASTM D7647	>1300	4 39869	4969	
	Particles >14μm		ASTM D7647	>160	1844	159	
	Particles >21µm		ASTM D7647	>40	474	27	
	Particles >38µm		ASTM D7647	>10	4 35	1	
	Particles >71μm		ASTM D7647	>3	4	0	
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	24/22/18	<u>^</u> 22/19/14	
	Silt	scalar	*Visual	NONE	LIGHT	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
LUID CONDITION	Sodium	nnm	ASTM D5185m		<1	3	
LOID CONDITION	Boron	ppm	ASTM D5185m		2	0	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		<1	0	
	Manganese	ppm	ASTM D5185m		<1	1	
	Magnesium		ASTM D5185m		<1	1	
	Calcium	ppm	ASTM D5165III		14	51	
		ppm					
	Phosphorus	ppm	ASTM D5185m		244	180	
	Zinc	ppm	ASTM D5185m		318 775	208	
	Sulfur	ppm ma KOU/a	ASTM D5185m		775 0.26	763	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.36	0.32	
	Visc @ 40°C	cSt	ASTM D445	55	45.0	45.0	





Laboratory Sample No.

Lab Number : 06124108

: VCP445314 Unique Number : 10938259

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Mar 2024 **Tested** : 27 Mar 2024 Diagnosed

: 27 Mar 2024 - Jonathan Hester

FERROUS PROCESSING AND TRADING 3400 E LAFAYETTE DETROIT, MI US 48207

> Contact: KEITH HALL keith.hall@fpt1.com T:

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.

Test Package : MOB 1 (Additional Tests: PrtCount)

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

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