OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

NORMAL ATTENTION ATTENTION

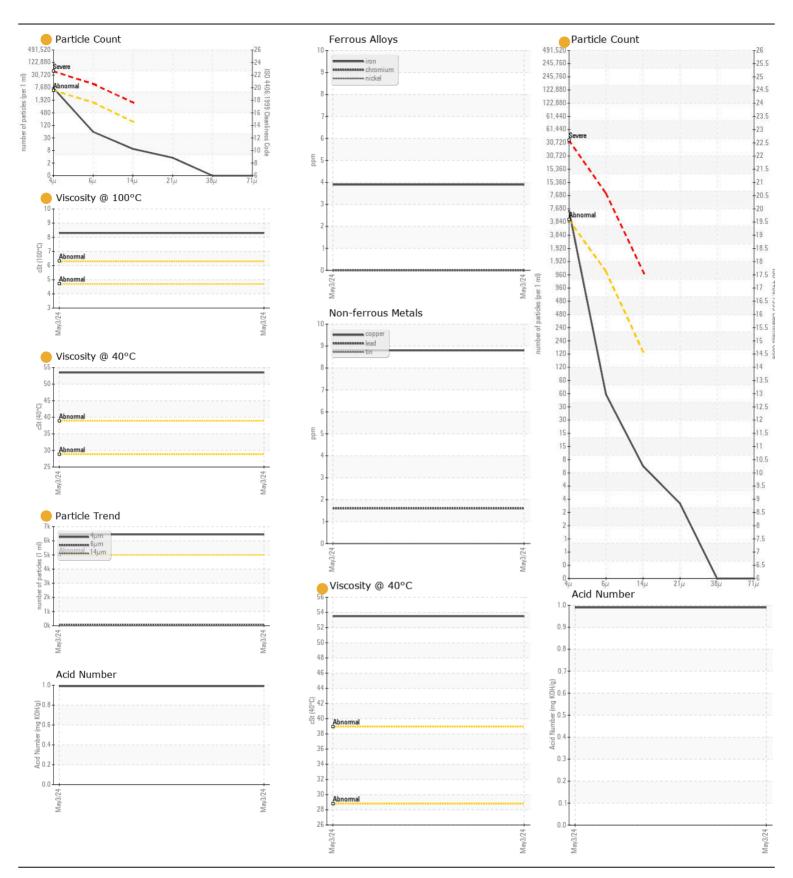
Machine Id

TORO PRO CORE 648 (S/N 405508413)

Hydraulic System

PX HYDRO TORO VG 32 (2 GAL)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info			,	
Sample Date		Client Info		03 May 2024		
Machine Age	hrs	Client Info		229		
Oil Age	hrs	Client Info		229		
Filter Age	hrs	Client Info		229		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Not Changd		
Sample Status				ATTENTION		
	• • •					
			>10			
	• • •		4.0			
	• •		>10	-		
			NIONE			
Yellow Metal	scalar	"VISUAI	NONE	NONE		
Silicon	mag	ASTM D5185m	>20	8		
	ppiii					
•						
		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/13/10		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.1	NEG		
		AOTA DE LOS				
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viscosity index (VI)	Scale	ASTIVI DZZ/U		121		
	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Yellow Metal Silicon Potassium Water Particles >6µm Particles >6µm Particles >14µm Particles >71µm Oil Cleanliness Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Acid Number (AN) Visc @ 40°C Visc @ 100°C	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status Iron Chromium Nickel ppm Nickel ppm Titanium ppm Lead Copper Tin Vanadium ppm White Metal Yellow Metal Scalar Silicon Potassium Particles >4µm Particles >6µm Particles >14µm Particles >38µm Particles >38µm Particles >38µm Particles >38µm Particles >38µm Particles >6µm Paticles >38µm Particles >6µm Paticles >6µm Particles >6µm	Sample Number Sample Date Client Info Sample Date Client Info Machine Age hrs Client Info Oil Age hrs Client Info Filter Age hrs Client Info Oil Changed Client Info Filter Changed Client Info Sample Status Iron ppm ASTM D5185m Chromium ppm ASTM D5185m Nickel ppm ASTM D5185m Nickel ppm ASTM D5185m Aluminum ppm ASTM D5185m Lead ppm ASTM D5185m Copper ppm ASTM D5185m Vanadium ppm ASTM D5185m Vanadium ppm ASTM D5185m White Metal scalar *Visual Yellow Metal scalar *Visual Silicon ppm ASTM D5185m Potassium ppm ASTM D5185m Water WC Method Particles >4µm ASTM D5185m Particles >5µm ASTM D7647 Particles >38µm ASTM D7647 Particles >71µm ASTM D7647 Particles >38µm ASTM D7647 Particles >38µm ASTM D7647 Particles >38µm ASTM D7647 Particles >38µm ASTM D7647 Particles >6µm ASTM D5185m ASTM D7647 Particles >6µm ASTM D5185m ASTM D	Sample Number Sample Date Sample Date Machine Age Oil Age hrs Client Info Oil Age hrs Client Info Oil Age hrs Client Info Oil Client Info Oil Changed Filter Changed Sample Status Iron Chromium ppm ASTM D5185m Nickel ppm ASTM D5185m Silver ppm ASTM D5185m Aluminum ppm ASTM D5185m ASTM D5185m Aluminum ppm ASTM D5185m Vanadium ppm ASTM D5185m White Metal scalar Yellow Metal scalar Yellow Metal Scalar Yellow Metal Scalar Yellow Metal Scalar ASTM D5185m ASTM D7647 Particles >110 Particles >21 µm ASTM D7647 Particles >20 Potassium Ppm ASTM D5185m ASTM D7647 Particles >21 µm ASTM D7647 Particles >21 µm ASTM D7647 Particles >38 µm ASTM D7647 Particles >38 µm ASTM D7647 Particles >38 µm ASTM D7647 Particles >300 Particles >38 µm ASTM D7647 Particles >300 Particles >38 µm ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D5185m ASTM D5185m ASTM D5185m Boron Particles ASTM D5185m A	Sample Number Client Info Sample Date Client Info 03 May 2024	Sample Number Client Info Sample Date Client Info 03 May 2024





Laboratory

Sample No. Lab Number : 06190428 Unique Number: 11047180

: TR06190428

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received : 24 May 2024 **Tested** Diagnosed

: 28 May 2024 : 30 May 2024 - Jonathan Hester

Test Package : MOB 2 (Additional Tests: KV100, VI) Certificate L2367 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)

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