**WEAR CONTAMINATION FLUID CONDITION** 

**NORMAL ATTENTION NORMAL** 

**OIL ANALYSIS REPORT** 

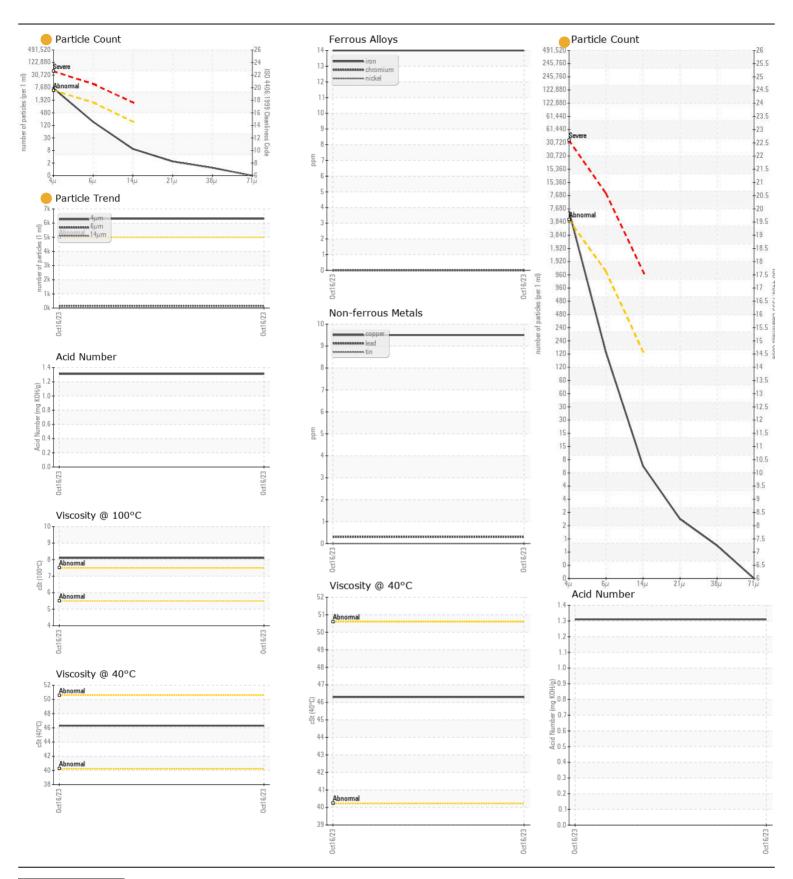
Machine Id

## TORO 04358 GM-3150-1 (S/N 403368495)

Hydraulic System

PX EXTENDED LIFE HYD FLUID (9 GAL)

DECOMMENDATION	<b>-</b> .	11014		1.1 27/81		L. D. J. J.	111
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		TR05992824		
	Sample Date		Client Info		16 Oct 2023		
	Machine Age	hrs	Client Info		1405		
	Oil Age	hrs	Client Info		1405		
	Filter Age	hrs	Client Info		1405		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				ATTENTION		
WEAR	Iron	ppm	ASTM D5185m	<b>&gt;20</b>	14		
WLAN	Chromium	ppm	ASTM D5185m		0		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	710	<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	<b>&gt;10</b>	2		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		10		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m	710	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	3		
	Potassium	ppm	ASTM D5185m	>20	3		
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. There is no indication of any contamination in the oil.	Water		WC Method	>0.1	NEG		
	Particles >4µm		ASTM D7647	>5000	6308		
	Particles >6µm		ASTM D7647	>1300	156		
	Particles >14µm		ASTM D7647	>160	8		
	Particles >21µm		ASTM D7647	>40	2		
	Particles >38μm		ASTM D7647	>10	1		
	Particles >71μm		ASTM D7647	>3	0		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>20/14/10</b>		
	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		
ELUID CONDITION	Codium	nnm	ACTM DE10Em		_		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron Barium	ppm	ASTM D5185m ASTM D5185m		0		
	Molybdenum	ppm					
	•	ppm	ASTM D5185m		<1 0		
	Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m		0 4		
	Calcium	ppm	ASTM D5185m		172		
	Phosphorus	ppm	ASTM D5185m		979		
	Zinc	ppm	ASTM D5185m		1210		
	Sulfur	ppm ppm	ASTM D5185m		5191		
	Acid Number (AN)		ASTM D3163111		1.31		
	Visc @ 40°C	cSt	ASTM D6045		46.3		
	Visc @ 40 C	cSt	ASTM D445		8.1		
	Viscosity Index (VI)				148		
	VISCUSITY ITIUEX (VI)	Scale	AOTIVI DZZI U		140		





Certificate L2367

Laboratory Sample No. Lab Number Unique Number: 10715486

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR05992824 : 05992824

Received **Tested** Diagnosed Test Package : MOB 2 (Additional Tests: KV100, VI)

: 30 Oct 2023 : 31 Oct 2023

: 31 Oct 2023 - Don Baldridge

Contact: DEAN GLEASON dean.gleason@denvergov.org T:

**KENNEDY GOLF COURSE** 

10500 E HAMPDEN AVE

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)

DENVER, CO

US 80014

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