

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id **TORO** 30609/4000-D 115625/30609 (S/N A183642726) Component Front Hydrostatic

TRC UTF RED (8 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06159114	TR05978234	
	Sample Date		Client Info		23 Apr 2024	11 Oct 2023	
	Machine Age	hrs	Client Info		2878	2767	
	Oil Age	hrs	Client Info		1526	1942	
	Filter Age	hrs	Client Info		1526	1942	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>200	10	10	
	Chromium	ppm	ASTM D5185m		0	0	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>50	2	1	
	Lead	ppm	ASTM D5185m		_ 14	13	
	Copper	ppm	ASTM D5185m		13	15	
	Tin	ppm	ASTM D5185m		0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	10	10	
	Potassium	ppm	ASTM D5185m	>20	0	0	
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Water		WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647	>10000	2804		
	Particles >6µm		ASTM D7647	>2500	407		
	Particles >14µm		ASTM D7647	>320	26		
	Particles >21µm		ASTM D7647	>80	8		
	Particles >38µm		ASTM D7647	>20	1		
	Particles >71µm		ASTM D7647	>4	0		
	Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/16/12		
	Silt	scalar	*Visual	NONE	NONE	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	5	
	Boron	ppm	ASTM D5185m		87	84	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	2	
	Molybdenum	ppm	ASTM D5185m		0	0	
	Manganese	ppm	ASTM D5185m		0	0	
	Magnesium	ppm	ASTM D5185m		8	11	
	Calcium	ppm	ASTM D5185m	4200	2752	2492	
	Phosphorus	ppm	ASTM D5185m		1074	1020	
	Zinc	ppm		2000	1074	1013	
	Sulfur	ppm	ASTM D5185m	2000	5246	4249	
	Acid Number (AN)	mg KOH/g	ASTM D3183III ASTM D8045		0.92	1.10	
	Visc @ 40°C	cSt	ASTM D6045 ASTM D445	55	51.4		
		oSt	ASTM D445	0.5	51.4	7.2	

Visc @ 100°C cSt

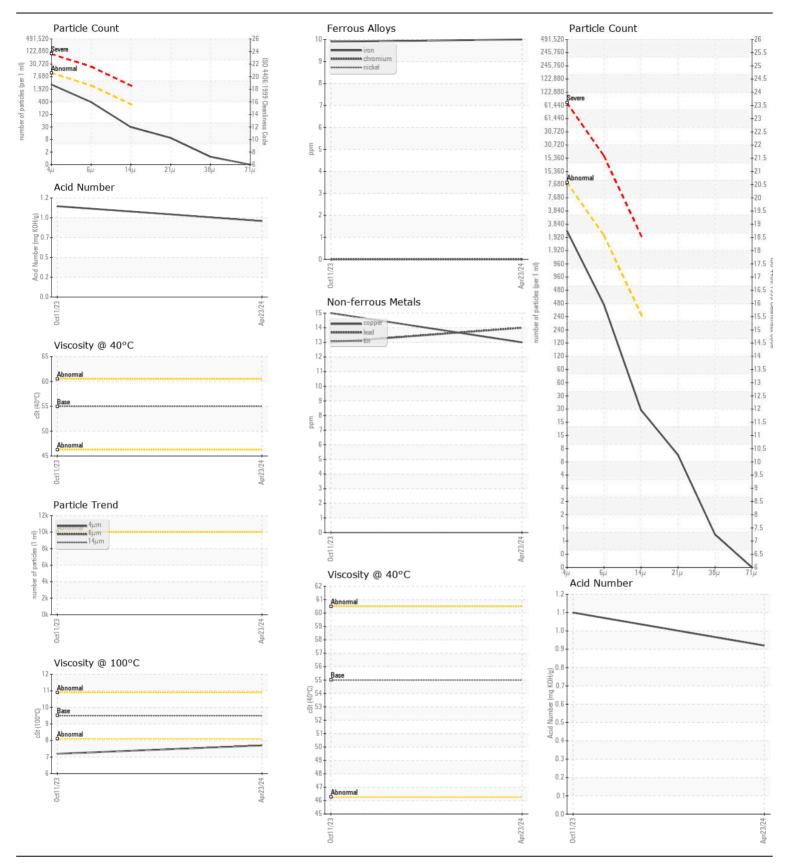
Viscosity Index (VI) Scale ASTM D2270 157

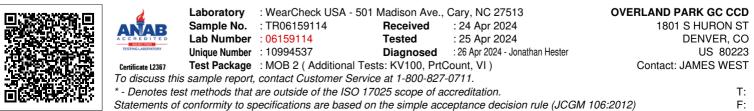
ASTM D445 9.5

7.7

114

7.2





Contact/Location: JAMES WEST - OVEDEN Page 2 of 2