

**OIL ANALYSIS REPORT** 

## Machine Id **CLIPPER-JOSTING 14-119** Component **Hydraulic System** Fluid **TRC HYDRAULIC OIL ISO 32- SAE10W (--- GAL)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number	00111	Client Info		TR02466697	TR01256224	,
	Sample Date		Client Info		07 Jun 2009	25 May 2005	
	Machine Age	mls	Client Info		0	0	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	N/A	
	Filter Changed		Client Info		Not Changd	N/A	
	Sample Status				NORMAL	ABNORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		<1	<b>6</b> 8	
	Chromium	ppm	ASTM D5185m		0	<1	
	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		<1	<1	
	Lead	ppm	ASTM D5185m		0	3	
	Copper	ppm	ASTM D5185m		1	3	
	Tin	ppm	ASTM D5185m		0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	VLITE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	7	
	Potassium	ppm	ASTM D5185m		0	9	
There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.	Water		WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		1284		
	Particles >6µm		ASTM D7647		699		
	Particles >14µm		ASTM D7647		119		
	Particles >21µm		ASTM D7647		40		
	Particles >38µm		ASTM D7647		6		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)	NONE	17/17/14		
	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 Emulsified Water	scalar	*Visual *Visual	NORML	NORML NEG	NORML NEG	
		Scalal	visuai		NEG	NLG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	▲ 1569	
The condition of oil is suitable for further service.	Boron	ppm	ASTM D5185m		0	2	
	Barium	ppm	ASTM D5185m		0	2	
	Molybdenum	ppm	ASTM D5185m		0	0	
	Manganese	ppm	ASTM D5185m		0	1	
	Magnesium	ppm	ASTM D5185m		0	2	
	Calcium	ppm	ASTM D5185m		102	3	
	Phosphorus	ppm	ASTM D5185m		835	1746	
	Zinc	ppm	ASTM D5185m		1070	1628	
	Sulfur	ppm	ASTM D5185m		7341	10697	

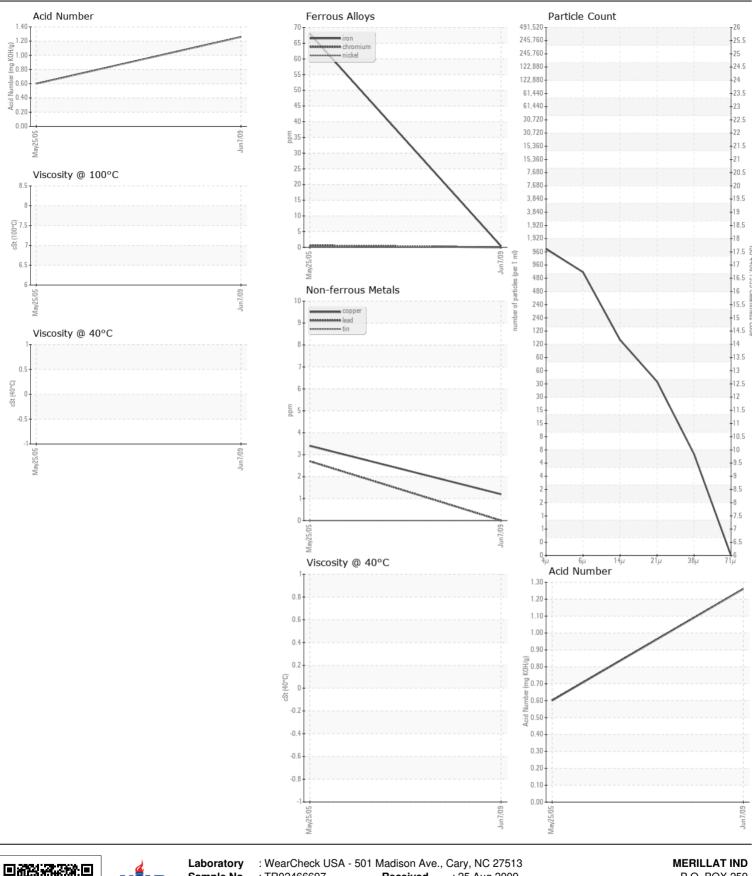
 Acid Number (AN)
 mg KOH/g
 ASTM D8045

 Visc @ 100°C
 cSt
 ASTM D445

0.601

1.26

7.15



Sample No. Received P.O. BOX 259 : TR02466697 : 25 Aug 2009 Lab Number : 02466697 Tested ATKINS, VA : 26 Aug 2009 Unique Number : 4931455 Diagnosed : 26 Aug 2009 - Jonathan Hester US 24311 Test Package : MOB 2 (Additional Tests: KV100) Contact: MAURA HARVEY 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. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: MAURA HARVEY - MERATK Page 2 of 2