WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

OIL ANALYSIS REPORT

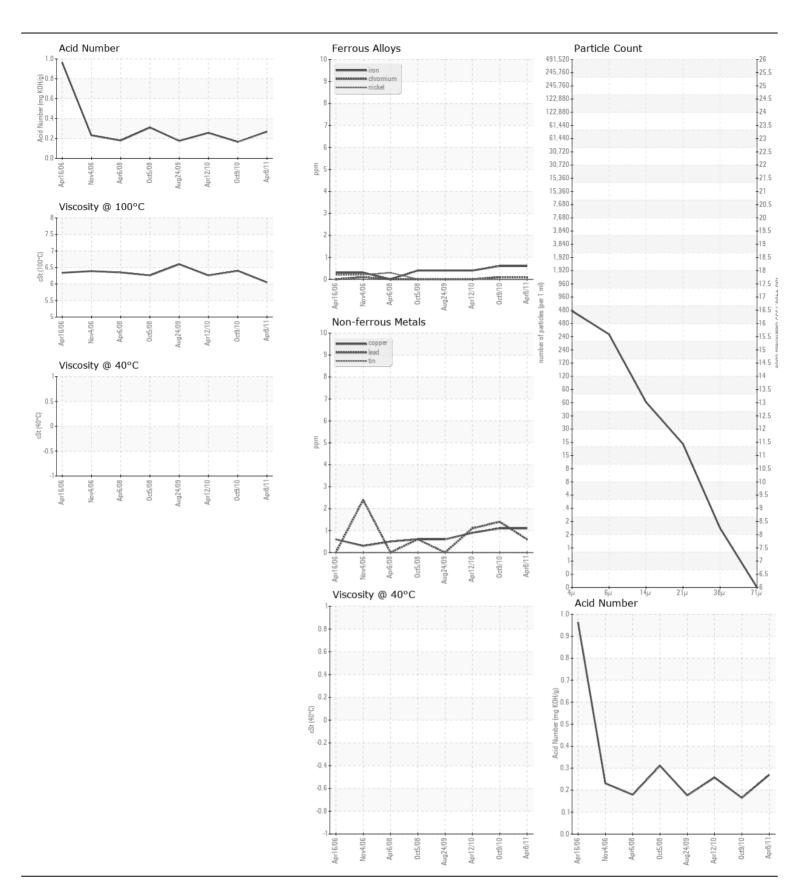
Machine Id

14-22492

Hydraulic System

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		Client Info		TR02837819	TR02737092	
	Sample Date		Client Info		08 Apr 2011	09 Oct 2010	12 Apr 201
	Machine Age	mls	Client Info		0	0	0
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Change
	Filter Changed		Client Info		Not Changd	Not Changd	N/A
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		<1	<1	<1
	Chromium	ppm	ASTM D5185m		<1	<1	0
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		<1	<1	<1
	Lead	ppm	ASTM D5185m		<1	1	1
	Copper	ppm	ASTM D5185m		1	1	<1
	Tin	ppm	ASTM D5185m		0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		1	5	<1
SONTAIIIINATION	Potassium	ppm	ASTM D5185m		0	0	0
There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.	Water	1-1-	WC Method		NEG	NEG	NEG
	Particles >4µm		ASTM D7647		585	708	
	Particles >6µm		ASTM D7647		318	385	
	Particles >14μm		ASTM D7647		54	65	
	Particles >21µm		ASTM D7647		18	22	
	Particles >38μm		ASTM D7647		2	3	
	Particles >71μm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		16/15/13	17/16/13	
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	VLITE	LIGHT	▲ HEAV
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual		NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	2	<1
	Boron	ppm	ASTM D5185m		<1	0	0
The condition of oil is suitable for further service.	Barium	ppm	ASTM D5185m		2	2	2
	Molybdenum	ppm	ASTM D5185m		0	1	<1
	Manganese	ppm	ASTM D5185m		0	0	0
	Magnesium	ppm	ASTM D5185m		0	<1	0
	Calcium	ppm	ASTM D5185m		23	15	15
	Phosphorus	ppm	ASTM D5185m		230	193	202
	Zinc	ppm	ASTM D5185m		234	181	189
	Sulfur	ppm	ASTM D5185m		1626	1682	1691
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.269	0.165	0.257
	Visc @ 100°C	cSt	ASTM D445		6.05	6.4	6.26





Certificate L2367

Laboratory Sample No.

: TR02837819 Lab Number : 02837819

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Apr 2011 **Tested** : 14 Apr 2011 - Don Baldridge

Unique Number : 5534292 Diagnosed Test Package : MOB 2 ( Additional Tests: KV100 )

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) **MERILLAT IND** 

P.O. BOX 259 ATKINS, VA US 24311

Contact: MAURA HARVEY

: 14 Apr 2011

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