

Machine Id SHAMU (S/N H32A0200006) Component Hydraulic System Fluid TRC HYDRAULIC OIL 15W (550 GAL)

RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Please note that this is a corrected copy for laboratory data and diagnostic comment updates.

WEAR

All component wear rates are normal.

CONTAMINATION

MPC (Membrane Patch Colorimetry) test indicates a high concentration of varnish present. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

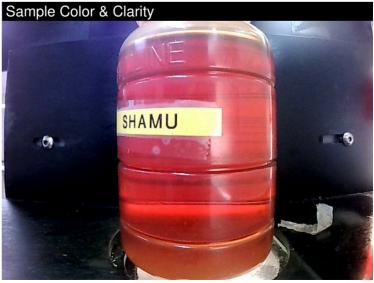
The AN level is acceptable for this fluid.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06151961	TR05563500	TR05106332
Sample Date		Client Info		30 Mar 2024	03 Jun 2022	30 Oct 2020
Machine Age	hrs	Client Info		11608	2496	17280
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>20	2	<1	4
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>75	<1	1	6
Tin	ppm	ASTM D5185m	>10	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
Silicon	ppm	ASTM D5185m	>20	<1	<1	<1
Potassium	ppm	ASTM D5185m		10	0	0
Water	ррш	WC Method	>0.1	NEG	NEG	NEG
MPC Varnish Potential	Scale	ASTM D7843		▲ 39		
Particles >4µm	Ocale	ASTM D7643 ASTM D7647	>5000	1683	4959	2296
Particles >6µm		ASTM D7647 ASTM D7647		463	1128	557
Particles >14µm		ASTM D7647 ASTM D7647	>160	403 53	70	53
Particles >21µm		ASTM D7647		13	14	19
Particles >38µm		ASTM D7647 ASTM D7647	>10	13	0	4
Particles >71µm		ASTM D7647		1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/13	19/17/13	18/16/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		3	0	1
Boron	ppm	ASTM D5185m		0	0	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
	nnm	ASTM D5185m		0	0	0
Manganese	ppm				0	<1
Manganese Magnesium	ppm	ASTM D5185m		0	0	
-				0 54	0 67	64
Magnesium	ppm	ASTM D5185m				
Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m		54	67	64
Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		54 640	67 696	64 699
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		54 640 716	67 696 890	64 699 797
Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	46	54 640 716 1652	67 696 890 1768	64 699 797 1783
Magnesium Calcium Phosphorus Zinc Sulfur Acid Number (AN)	ppm ppm ppm ppm ppm mg KOH/g	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D8045	46 6.3	54 640 716 1652 0.85	67 696 890 1768 0.69	64 699 797 1783 0.710

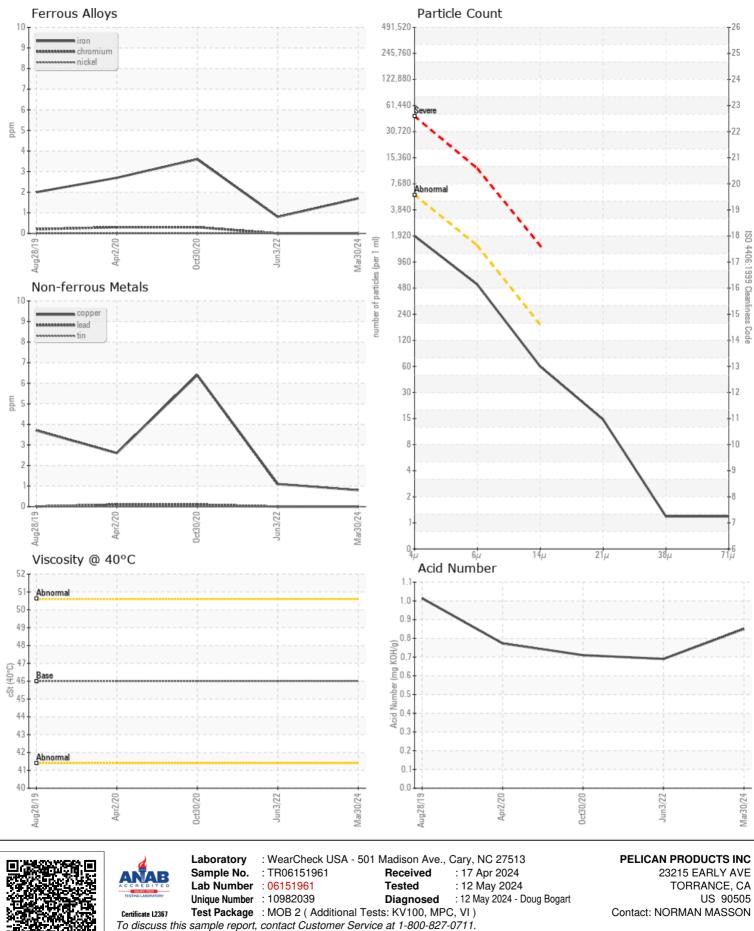
## WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL







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^{* -} 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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