

Machine Id BUBBA (S/N H21A0194024) Hydraulic System TRC HYDRAULIC OIL 15W (620 GAL)

RECOMMENDATION

We recommend that you use depth or electrostatic filtration to remove insolubles from the oil and to reduce the levels of varnish in the system. Alternatively draining a percentage of the oil and topping up with fresh oil (sweetening the oil) may provide a reduction in the varnish potential level. Please note that this is a corrected copy for laboratory data and diagnostic comment updates.

WEAR

All component wear rates are normal.

CONTAMINATION

There is a high amount of silt (particulates < 14 microns in size) present in the oil. MPC (Membrane Patch Colorimetry) test indicates a high concentration of varnish present.

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FLUID CONDITION

The AN level is acceptable for this fluid.

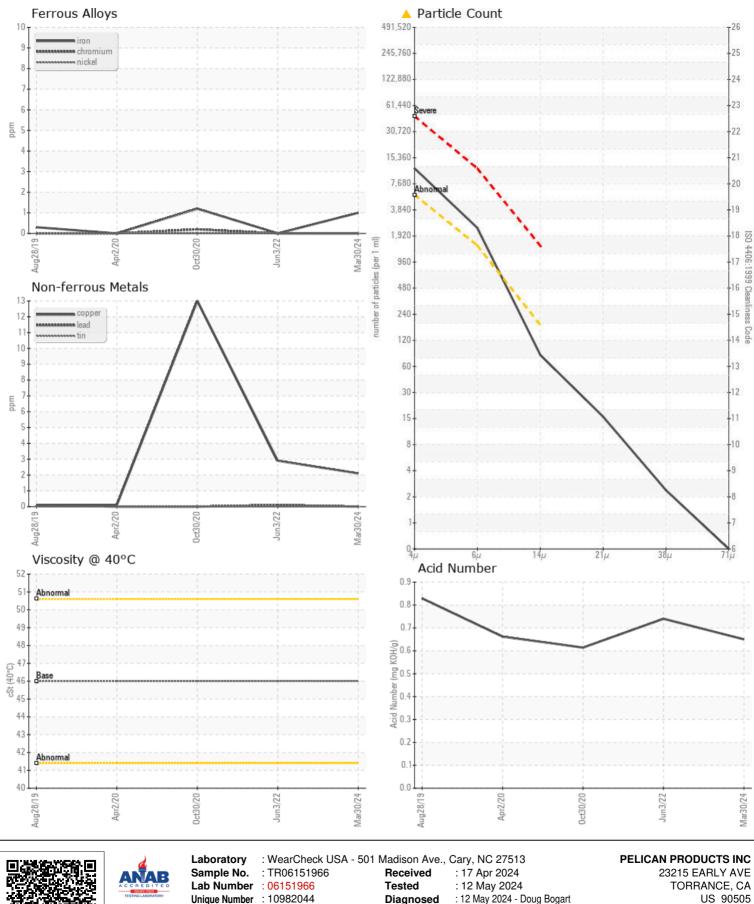
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06151966	TR05563498	TR05106329
Sample Date		Client Info		30 Mar 2024	03 Jun 2022	30 Oct 2020
Machine Age	hrs	Client Info		67550	6720	9120
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>20	1	0	1
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	<1
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>75	2	3	13
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	0	<1	<1
Potassium	ppm	ASTM D5185m	>20	9	0	0
Water	0	WC Method	>0.1	NEG	NEG	NEG
MPC Varnish Potential	Scale	ASTM D7843	>15	▲ 57		
Particles >4µm		ASTM D7647	>5000	A 10061	1340	1193
Particles >6µm		ASTM D7647	>1300	2077	364	338
Particles >14µm		ASTM D7647 ASTM D7647	>160 >40	72 14	38 12	40
Particles >21µm Particles >38µm		ASTM D7647 ASTM D7647	>40 >10	2	2	2
Particles >71µm		ASTM D7647 ASTM D7647	>3	2	0	0
Oil Cleanliness		ISO 4406 (c)	>3 >19/17/14	0 21/18/13	18/16/12	17/16/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
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	<1	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		90	106	76
Phosphorus	ppm	ASTM D5185m		578	737	698
Zinc	ppm	ASTM D5185m		683	977	860
Sulfur	ppm	ASTM D5185m		1655	1792	1625
Acid Number (AN)	mg KOH/g	ASTM D8045		0.65	0.74	0.614
Visc @ 40°C	cSt	ASTM D445	46	46.7		
Visc @ 100°C Viscosity Index (VI)	cSt	ASTM D445	6.3	7.1	7.2	7.1
	Scale	ASTM D2270		110		





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Unique Number : 10982044 Diagnosed Test Package : MOB 2 (Additional Tests: KV100, MPC, VI) 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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

US 90505 Contact: NORMAN MASSON

T:

F:

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