

WEAR NORMAL CONTAMINATION SEVERE FLUID CONDITION NORMAL

Machine Id **TR-4** Component **Hydraulic System** Fluid **{not provided} (--- GAL)**

RECOMMENDATION

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

There is a high amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC06189728	WC06152002	WC06124928
Sample Date		Client Info		22 May 2024	15 Apr 2024	19 Mar 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	SEVERE
Iron	ppm	ASTM D5185m	>20	4	3	4
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	<1	1
Tin	ppm	ASTM D5185m	>20	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Water	%	ASTM D6304	>0.05	0.011	0.009	0.005
ppm Water	ppm	ASTM D6304	>500	116	90	58
Particles >4µm		ASTM D7647	>5000	A 70354	A 83851	8 3270
Particles >6µm		ASTM D7647	>1300	10520	A 15831	<u> </u>
Particles >14µm		ASTM D7647	>160	137	▲ 357	158
Particles >21µm		ASTM D/64/	>40	18	<u> </u>	34
Particles >38µm		ASTM D/64/	>10	1	1	0
Particles >/1µm		ASIM D/64/	>3	0	0	0
Oil Cleanliness		ISO 4406 (C)	>19/1//14	A 23/21/14	A 24/21/16	A 24/20/14
Silt	scalar	^Visual	NONE	NONE	NONE	NONE
Debris Carad/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	visual	NORIVIL	NORML	NORIVIL	NORIVIL
	scalar	*Visual		NURML	NORIVIL	NORIVIL
Emuisined water	scalar	visual	>0.05	NEG	NEG	NEG
Sodium	maa	ASTM D5185m		2	2	1
Boron	mag	ASTM D5185m		- <1	<1	0
Barium	maa	ASTM D5185m		28	32	16
Molvbdenum	mag	ASTM D5185m		0	0	<1
Manganese	maa	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		70	77	29
Phosphorus	ppm	ASTM D5185m		242	241	256
Zinc	ppm	ASTM D5185m		11	14	0
Sulfur	ppm	ASTM D5185m		4025	3854	4329
Acid Number (AN)	mg KOH/a	ASTM D8045		0.70	0.71	0.81
Visc @ 40°C	cSt	ASTM D445		23.6	21.7	19.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **METALUBE INC** Sample No. 56 CYPRESS DR : WC06189728 Received : 23 May 2024 Lab Number : 06189728 YOUNGSVILLE, NC Tested : 25 May 2024 : 25 May 2024 - Wes Davis US 27596 Unique Number : 11046480 Diagnosed Test Package : IND 2 (Additional Tests: KF) Contact: CHRIS BARNES Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. cbarnes@metalubeinc.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)554-3024 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)554-3023

Contact/Location: CHRIS BARNES - METYOU Page 2 of 2