

Machine Id Caterpillar TL1055-C 54 (S/N 0KDE00625) Hydraulic System

{not provided} (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.



All component wear rates are normal.

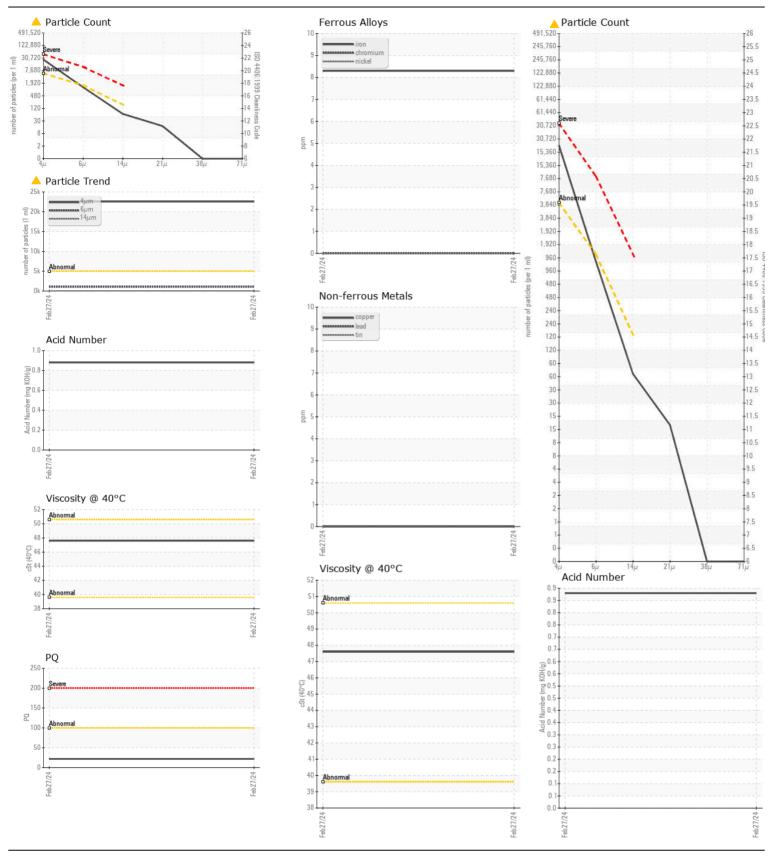
CONTAMINATION

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

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.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0191812		
Sample Date		Client Info		27 Feb 2024		
Machine Age	hrs	Client Info		4064		
Oil Age	hrs	Client Info		4064		
Filter Age	hrs	Client Info		4064		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		N/A		
Sample Status				ABNORMAL		
PQ		ASTM D8184		22		
Iron	ppm	ASTM D5185m	>20	8		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	<1		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	0		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>20	6		
Potassium	ppm	ASTM D5185m	>20	0		
Water		WC Method	>0.1	NEG		
Particles >4µm		ASTM D7647	>5000	🔺 22564		
Particles >6µm		ASTM D7647	>1300	1079		
Particles >14µm		ASTM D7647	>160	57		
Particles >21µm		ASTM D7647	>40	15		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	🔺 22/17/13		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.1	NEG		
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Sodium	ppm	ASTM D5185m		<1		
Boron	ppm	ASTM D5185m		68		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		17		
Calcium	ppm	ASTM D5185m		2529		
Phosphorus	ppm	ASTM D5185m		1001		
Zinc	ppm	ASTM D5185m		1242		
Sulfur	ppm	ASTM D5185m		6949		
Acid Number (AN)	mg KOH/g	ASTM D8045		0.88		
Visc @ 40°C	cSt	ASTM D445		47.6		



TURNER MURPHY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0191812 PO BOX 3490 Received : 15 Apr 2024 ñ Lab Number : 06148558 ROCK HILL, SC Tested : 16 Apr 2024 : 16 Apr 2024 - Wes Davis Unique Number : 10978636 Diagnosed US 29730 Test Package : MOBCE (Additional Tests: PQ) Contact: Bridget Thomas Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. bthomas@turnermurphy.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (803)328-3874 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (803)328-8243

Submitted By: Bridget Thomas Page 2 of 2