

Machine Id CATERPILLAR DOOLIN LIFT Component Left Genset Fluid TRC PRO-SPEC IV HD 5W40 (8 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR06148914		
We recommend that you drain the oil and perform a filter service on this component if not already done. Resample at the next service	Sample Date		Client Info		04 Apr 2024		
	Machine Age	hrs	Client Info		509		
interval to monitor.	Oil Age	hrs	Client Info		33		
	Filter Age	hrs	Client Info		33		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>50	2		
	Chromium	ppm	ASTM D5185m	>4	0		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>5	0		
	Aluminum	ppm	ASTM D5185m	>12	<1		
	Lead	ppm	ASTM D5185m	>17	0		
	Copper	ppm	ASTM D5185m	>70	<1		
	Tin	ppm	ASTM D5185m	>15	0		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		5		
There is no indication of any contamination in the oil	Potassium	ppm	ASTM D5185m	>20	3		
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0		
	Water		WC Method	>0.1	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0		
	Nitration	Abs/cm	*ASTM D7624	>20	6.5		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.7		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4		
The oil viscosity is higher than normal. The BN result indicates that	Boron	ppm	ASTM D5185m		2		
there is suitable alkalinity remaining in the oil. The oil is no longer	Barium	ppm	ASTM D5185m		0		
serviceable.	Molybdenum	ppm	ASTM D5185m		13		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	1865	242		
	Calcium	ppm	ASTM D5185m	4500	3903		
	Phosphorus	ppm	ASTM D5185m	1.0.1	789		
	Zinc	ppm	ASTM D5185m	1200	1124		
	Sulfur	ppm	ASTM D5185m		4710		
		Also / disc		05			

Oxidation

Visc @ 100°C cSt

Abs/.1mm *ASTM D7414 >25

ASTM D445 15

Base Number (BN) mg KOH/g ASTM D2896 15

11.4

15.15

19.27



Sample No. Received 1415 INDUSTRIAL DR : TR06148914 : 15 Apr 2024 <u>Siq</u> Lab Number : 06148914 : 18 Apr 2024 MCHENRY, IL Tested : 18 Apr 2024 - Doug Bogart Unique Number : 10978992 US 60050 Diagnosed Test Package : MOB 2 Contact: JERRY MORTON 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. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: JERRY MORTON - CITMCH Page 2 of 2