

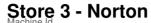


WEAR CONTAMINATION FLUID CONDITION

ABNORMAL

NORMAL

Area

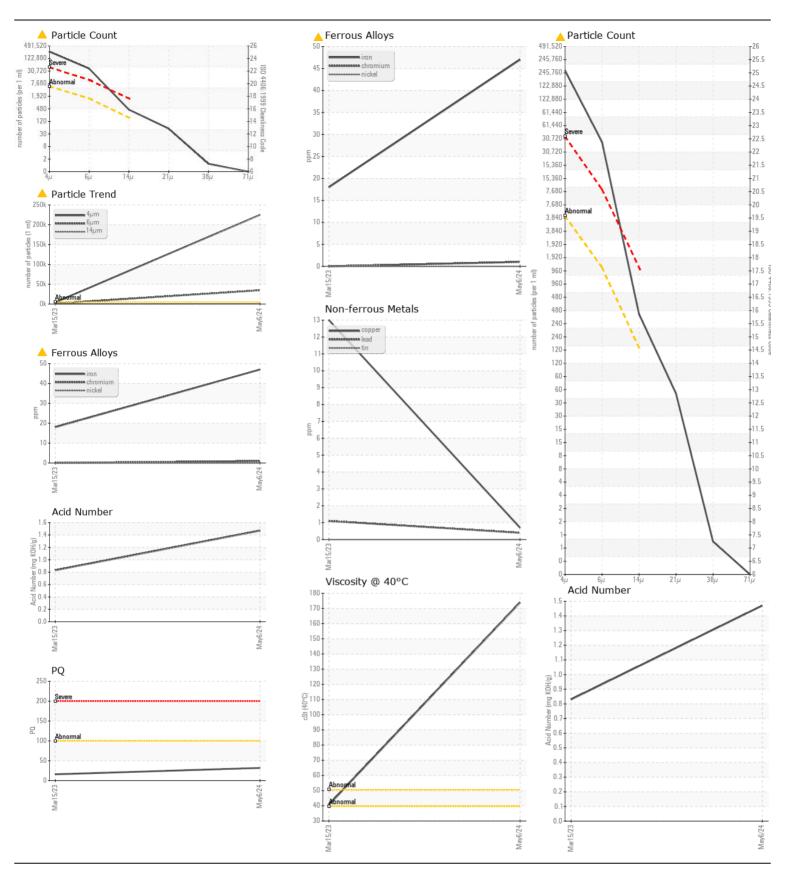


## CATERPILLAR D6T D20 (S/N 0MH700532)

Hydraulic System

{not provided} (--- GAL)

Total trick change at the time of sampling has been noted. Resample at the time of sampling has been noted. Resample at the time of sampling has been noted. Resample at the time of sampling has been noted. Resample at the time of sampling has been noted. Resample at the time of sampling has been noted. Resample at the time of sampling has been noted. Resample at the time of sampling has been noted. Resample at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	{iiot provideu} ( GAL)							
Mary	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	Historv1	Historv2
The filter change at the time of sampling has been noted. Resembled in the next service interval to monitor. Pleases specify the brand, type, and viscosity of the oil on your next sample.   Sample Date   Machine Age   Ins   Collent Info   0405   2974     0406   1000   0     0405   1000   0   0   0   0   0   0   0   0	TEOGRAME TO A						-	
Viscosity of the oil on your next sample.		•		Client Info		06 May 2024	15 Mar 2023	
CONTAMINATION   Protessium		Machine Age	hrs	Client Info		4045	2974	
Ol Changed   Client Info   Client Info   Sample Status	viscosity of the oil on your next sample.	Oil Age	hrs	Client Info		4045	2974	
Filter Changed   Changed		Filter Age	hrs	Client Info		1000	0	
Name		Oil Changed		Client Info		Not Changd	Not Changd	
PQ		Filter Changed		Client Info		Changed	Changed	
The iron level is abnormal.		Sample Status				ABNORMAL	ATTENTION	
The iron level is abnormal.   Iron	WEAR	PO		ASTM D8184		32	16	
Chromium   SMIN D5186m   10   0   0   0   1   0   0   1   0   0	WEAR		ppm		>20			
Nickel	The iron level is abnormal.							
Titanium   ppm   ASTM D5185m   0								
Silver   ppm   ASTM 05185m   0   0   0   1   1   2   1   1   1   1   1   1   1								
Aluminum   ppm   ASTM D5185m   >10   <1   1   2								
Lead   ppm   ASTM D5185m   x10   x1   x1   x1   x1   x1   x1   x		Aluminum			>10	<1	2	
Copper   ppm   ASTM D6185m   75   <1   13								
Tin		Copper		ASTM D5185m	>75	<1	13	
White Metal Yellow Metal   Scalar   *Visual NONE   NONE			ppm	ASTM D5185m	>10	0	0	
Yellow Metal   Scalar   Visual   NONE   N		Vanadium	ppm	ASTM D5185m		<1	0	
Silicon   ppm   ASTM D5185m   20   8   5		White Metal	scalar	*Visual	NONE	NONE	LIGHT	
Potassium   ppm   ASTM D5185m   20   0   <1		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium   ppm   ASTM D5185m   20   0   <1	CONTAMINATION	Silicon	nnm	ASTM D5185m	<b>&gt;</b> 20	8	5	
Water   WC Method   So.1   NEG   NEG	CONTAININATION							
Particles >4µm   ASTM D7647   >5000   A 225065   4158	There is a high amount of particulates present in the oil.		ррпп					
Particles >θμm   ASTM D7647 >1300   A34706   316       Particles >14μm   ASTM D7647 >160   A385   139       Particles >21μm   ASTM D7647 >100   A385   139       Particles >21μm   ASTM D7647 >100   A48   43       Particles >71μm   ASTM D7647 >10   1   2       Particles >71μm   ASTM D7647 >3   0   0   0       Particles >71μm   ASTM D7647 >10   NONE   N								
Particles >14μm		•						
Particles >21µm								
Particles >38µm   ASTM D7647   >10   1   2       Particles >71µm   ASTM D7647   >3   0   0   0       Oil Cleanliness   Silt								
Particles > 71 μm								
Oil Cleanliness   ISO 4406 (c)   x1917/14		•		ASTM D7647	>3	0	0	
Silt   Scalar   *Visual   NONE   NORML				ISO 4406 (c)	>19/17/14	<b>25/22/16</b>	19/18/14	
Sand/Dirt   scalar   *Visual   NONE   NONE   NONE   Appearance   scalar   *Visual   NORML		Silt	scalar			NONE	NONE	
Appearance   Scalar   *Visual   NORML   NORM		Debris	scalar	*Visual	NONE	NONE	LIGHT	
Odor   scalar *Visual   NORML   NORML   NORML   Emulsified Water   scalar *Visual   >0.1   NEG   NEG		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Emulsified Water   scalar   *Visual   >0.1   NEG   NEG		Appearance	scalar	*Visual	NORML	NORML	NORML	
Sodium   ppm   ASTM D5185m   1		Odor	scalar	*Visual	NORML	NORML	NORML	
Boron   ppm   ASTM D5185m   36   0		Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Boron   ppm   ASTM D5185m   36   0	ELUID CONDITION	Sodium	nnm	ASTM D5185m		1	<1	
Barium   ppm   ASTM D5185m   0   0   0	I LOID CONDITION							
Additive package is suitable for further service.    Molybdenum   ppm   ASTM D5185m   3   1       Manganese   ppm   ASTM D5185m   <1   <1       Magnesium   ppm   ASTM D5185m   18   8       Calcium   ppm   ASTM D5185m   2469   208       Phosphorus   ppm   ASTM D5185m   1021   648       Zinc   ppm   ASTM D5185m   942   914       Sulfur   ppm   ASTM D5185m   11740   1723       Acid Number (AN)   mg KOHlg   ASTM D8045   1.47   0.83	The AN level is acceptable for this fluid. The condition of the oils							
Manganese         ppm         ASTM D5185m         <1	additive package is suitable for further service.							
Magnesium         ppm         ASTM D5185m         18         8            Calcium         ppm         ASTM D5185m         2469         208            Phosphorus         ppm         ASTM D5185m         1021         648            Zinc         ppm         ASTM D5185m         942         914            Sulfur         ppm         ASTM D5185m         11740         1723            Acid Number (AN)         mg KOH/g         ASTM D8045         1.47         0.83		•						
Calcium         ppm         ASTM D5185m         2469         208            Phosphorus         ppm         ASTM D5185m         1021         648            Zinc         ppm         ASTM D5185m         942         914            Sulfur         ppm         ASTM D5185m         11740         1723            Acid Number (AN)         mg KOH/g         ASTM D8045         1.47         0.83								
Phosphorus         ppm         ASTM D5185m         1021         648            Zinc         ppm         ASTM D5185m         942         914            Sulfur         ppm         ASTM D5185m         11740         1723            Acid Number (AN)         mg KOH/g         ASTM D8045         1.47         0.83								
Zinc         ppm         ASTM D5185m         942         914            Sulfur         ppm         ASTM D5185m         11740         1723            Acid Number (AN)         mg KOH/g         ASTM D8045         1.47         0.83								
Sulfur         ppm         ASTM D5185m         11740         1723            Acid Number (AN)         mg KOH/g         ASTM D8045         1.47         0.83		•						
Acid Number (AN)         mg KOH/g         ASTM D8045         1.47         0.83		Sulfur						
		Acid Number (AN)						
				ASTM D445			40.7	





Laboratory

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Lab Number : 06196563

: LEC0048980 Unique Number : 11058686

Received : 31 May 2024 **Tested** : 05 Jun 2024 Diagnosed

: 05 Jun 2024 - Jonathan Hester

US 26330 Contact: JESSE WILBURN jesseowilburn@gmail.com T: (740)440-0927

Test Package : CONST ( Additional Tests: PQ ) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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)

LANE PIPELINE

2946 E MAIN ST

BRIDGEPORT, WV