

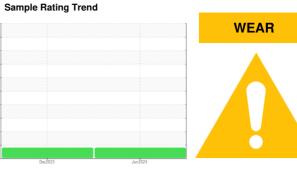
OIL ANALYSIS REPORT



Machine Id CATERPILLAR 745D 13395 (S/N 3T605878)

Front Differential

{not provided} (--- GAL)



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the

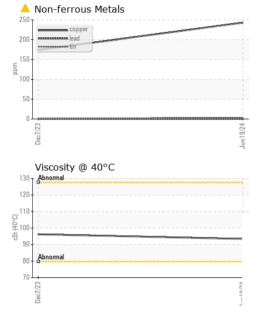
Fluid Condition

The condition of the oil is acceptable for the time in service.

			Dec2023	Jun2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0899149	WC0879449	
Sample Date		Client Info		19 Jun 2024	07 Dec 2023	
Machine Age	hrs	Client Info		3986	2028	
Oil Age	hrs	Client Info		1958	2028	
Oil Changed	1113	Client Info		Changed	Changed	
Sample Status		Ollerit IIIIO		ABNORMAL	ABNORMAL	
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	98	168	
Chromium	ppm	ASTM D5185m	>3	<1	2	
Nickel	ppm	ASTM D5185m	>3	<1	<1	
Titanium	ppm	ASTM D5185m	>2	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>30	22	16	
Lead	ppm	ASTM D5185m	>13	0	0	
Copper	ppm	ASTM D5185m	>103	<u> </u>	<u> </u>	
Tin		ASTM D5185m	>5	3	<1	
Vanadium	ppm	ASTM D5185m	>5	0	0	
Cadmium	ppm	ASTM D5185m		0	0	
Gaumum	ppm	ASTIVI DO TOSITI		U	U	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		112	<1	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	2	
Manganese	ppm	ASTM D5185m		2	3	
Magnesium	ppm	ASTM D5185m		5	13	
		ASTM D5185m		802	0110	
Calcium	ppm	ASTIVI DSTOSIII		002	3112	
Calcium Phosphorus	ppm	ASTM D5185m		539	3112 1070	
Phosphorus	ppm	ASTM D5185m		539	1070	
Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base	539 317	1070 1298	
Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		539 317 3936	1070 1298 7792	
Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method		539 317 3936 current	1070 1298 7792 history1	
Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	>100	539 317 3936 current	1070 1298 7792 history1 24	history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	>100	539 317 3936 current 11	1070 1298 7792 history1 24 <1	history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20	539 317 3936 current 11 2	1070 1298 7792 history1 24 <1 0	 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	>100 >20 limit/base	539 317 3936 current 11 2 2 current	1070 1298 7792 history1 24 <1 0	history2 history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m wethod *Visual	>100 >20 limit/base NONE	539 317 3936 current 11 2 2 current NONE	1070 1298 7792 history1 24 <1 0 history1 NONE	history2 history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m wethod *Visual	>100 >20 limit/base NONE NONE	539 317 3936 current 11 2 2 current NONE NONE	1070 1298 7792 history1 24 <1 0 history1 NONE	history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m wethod *Visual *Visual *Visual	>100 >20 limit/base NONE NONE	539 317 3936 current 11 2 2 current NONE NONE NONE	1070 1298 7792 history1 24 <1 0 history1 NONE NONE	history2 history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m wethod *Visual *Visual *Visual *Visual	>100 >20 limit/base NONE NONE NONE NONE	539 317 3936 current 11 2 2 current NONE NONE NONE NONE	1070 1298 7792 history1 24 <1 0 history1 NONE NONE NONE NONE	history2 history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	>100 >20 limit/base NONE NONE NONE NONE NONE NONE	539 317 3936 current 11 2 2 current NONE NONE NONE NONE NONE NONE NONE	1070 1298 7792 history1 24 <1 0 history1 NONE NONE NONE NONE NONE NONE	history2 history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *Visual	>100 >20 limit/base NONE NONE NONE NONE NONE NONE NONE	539 317 3936 current 11 2 2 current NONE NONE NONE NONE NONE NONE NONE NON	1070 1298 7792 history1 24 <1 0 history1 NONE NONE NONE NONE NONE NONE NONE NON	history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *Visual	>100 >20 limit/base NONE NORML NORML	539 317 3936 current 11 2 2 current NONE NONE NONE NONE NONE NONE NONE NON	1070 1298 7792 history1 24 <1 0 history1 NONE NONE NONE NONE NONE NONE NONE NON	history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *Visual	>100 >20 limit/base NONE	539 317 3936 current 11 2 2 current NONE NONE NONE NONE NONE NONE NONE NON	1070 1298 7792 history1 24 <1 0 history1 NONE NONE NONE NONE NONE NONE NONE NON	history2 history2 history2

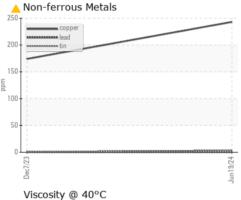


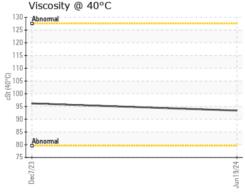
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		93.4	96.2	
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS						

Ferrous Alloys 180 160 120 100









Certificate 12367

Laboratory Sample No.

Lab Number : 06218648 Unique Number : 11096845

: WC0899149 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Jun 2024

Tested : 25 Jun 2024

Diagnosed : 26 Jun 2024 - Sean Felton

To discuss this sample report, contact Customer Service at 1-800-237-1369.

US 28563 Contact: MIKE WYATT mwyatt@traderconstruction.com

TRADER CONSTRUCTION CO.

T: (252)633-1399 F: (252)638-4871

PO DRAWER 1578

NEW BERN, NC

* - 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)

Contact/Location: MIKE WYATT - TRANEW