

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **CATERPILLAR 745D 13408 (S/N 3T606520)** Component **Front Differential**

Fluid {not provided} (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

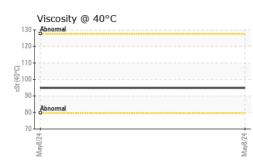
Fluid Condition

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

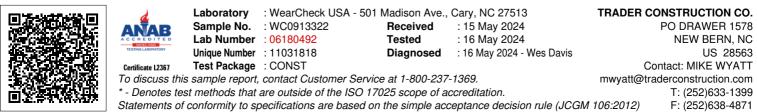
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0913322		
Sample Date		Client Info		08 May 2024		
Machine Age	hrs	Client Info		2253		
Oil Age	hrs	Client Info		2253		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	220		
Chromium	ppm	ASTM D5185m	>3	2		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>30	4		
Lead	ppm	ASTM D5185m	>13	1		
Copper	ppm	ASTM D5185m	>103	78		
Tin	ppm	ASTM D5185m	>5	1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		<1		
Molybdenum	ppm	ASTM D5185m		4		
Manganese	ppm	ASTM D5185m		3		
Magnesium	ppm	ASTM D5185m		9		
Calcium	ppm	ASTM D5185m		3102		
Phosphorus	ppm	ASTM D5185m		1027		
Zinc	ppm	ASTM D5185m		1239		
Sulfur	ppm	ASTM D5185m		9508		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm		>100	22		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	0		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
				NORML		
Appearance	scalar	*Visual	NORML			
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual *Visual	>.2	NEG NEG		
Free Water	scalar					



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FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		94.8		
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS						
Ferrous Alloys			Mar/8/24			
Viscosity @ 40°C			May8/24 May8/24 May8/24			
WearCheck USA - 50 ⁻	1 Madis	on Ave., Carv.	NC 27513	т	RADER CONST	RUCTION CO.



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Contact/Location: MIKE WYATT - TRANEW