

OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Machine Id **CATERPILLAR 745D 13408 (S/N 3T606520)** Hydraulic System Fluid

TDH FLUID SAE 70W80 (--- GAL)

DIAGNOSIS	

Recommendation

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) TDH FLUID SAE 70W80. Please confirm.

Wear

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.

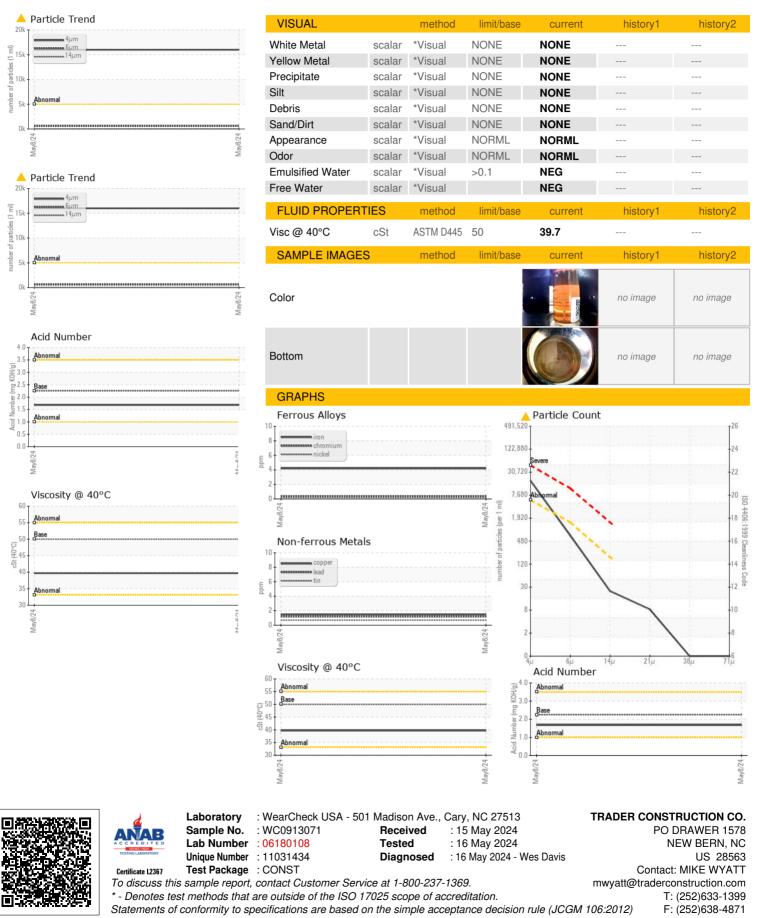
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0913071		
Sample Date		Client Info		08 May 2024		
Machine Age	hrs	Client Info		2253		
Oil Age	hrs	Client Info		2253		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	4		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m	>10	2		
Lead	ppm		>10	1		
Copper	ppm	ASTM D5185m		2		
Tin	ppm		>10	<1		
Vanadium	ppm	ASTM D5185m	210	<1		
Cadmium	ppm	ASTM D5185m		<1		
	PPIII					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	10	0		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	10	<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	100	11		
Calcium	ppm	ASTM D5185m	3500	3053		
Phosphorus	ppm	ASTM D5185m	1150	1127		
Zinc	ppm	ASTM D5185m	1150	1280		
Sulfur	ppm	ASTM D5185m	5000	5658		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	7		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	2		
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
		ASTM D7647	>5000	人 15997		
Particles >4µm				500		
		ASTM D7647	>1300	590		
Particles >6µm		ASTM D7647 ASTM D7647	>1300 >160	21		
Particles >6µm Particles >14µm			>160			
Particles >6µm Particles >14µm Particles >21µm		ASTM D7647	>160	21		
Particles >6µm Particles >14µm Particles >21µm Particles >38µm		ASTM D7647 ASTM D7647	>160 >40 >10	21 7		
Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647 ASTM D7647	>160 >40 >10	21 7 0		
Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ΓΙΟΝ	ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>160 >40 >10 >3	21 7 0 0		
	<mark>ГІОN</mark> mg KOH/g	ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ISO 4406 (c)	>160 >40 >10 >3 >19/17/14	21 7 0 0 ▲ 21/16/12		

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