

OIL ANALYSIS REPORT

Sample Rating Trend





CATERPILLAR 980H 2230704

Component Front Differential Fluid

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 80 Tractor TDH Fluid. Please confirm the oil type and grade, and specify the brand 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.

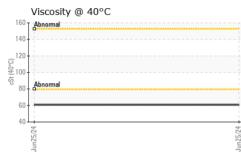
Fluid Condition

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		WC0914644		
Sample Date		Client Info		25 Jun 2024		
Machine Age	hrs	Client Info		27735		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
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 D5185(m)	>500	15		
Chromium	ppm	ASTM D5185(m)	>3	0		
Nickel	ppm	ASTM D5185(m)	>3	<1		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>30	1		
Lead	ppm	ASTM D5185(m)	>13	0		
Copper	ppm	ASTM D5185(m)	>103	2		
Tin	ppm	ASTM D5185(m)	>5	0		
Antimony	ppm	ASTM D5185(m)	>5	0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		90		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		6		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)		47		
Calcium	ppm	ASTM D5185(m)		3373		
Phosphorus	ppm	ASTM D5185(m)		1084		
Zinc	ppm	ASTM D5185(m)		1333		
Sulfur	ppm	ASTM D5185(m)		6292		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>100	10		
Sodium	ppm	ASTM D5185(m)		1		
Potassium	ppm	ASTM D5185(m)	>20	<1		



OIL ANALYSIS REPORT



	VISUAL		method	limit/base	current	history1	history2
1	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
	Precipitate	scalar	Visual*	NONE	NONE		
	Silt	scalar	Visual*	NONE	VLITE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
Jun25/24	Appearance	scalar	Visual*	NORML	NORML		
un P	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>.2	NEG		
	Free Water	scalar	Visual*		NEG		
	FLUID PROPERT	TIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D7279(m)		60.7		
	SAMPLE IMAGES	S	method	limit/base	current	history1	history2
	Color					no image	no image
	Bottom					no image	no image
	GRAPHS						
	Iron (ppm)			3	Lead (ppm)		
	Question				0.000		
	E 500 - Abnormal			² ط	Abnormal		
	0) L		4
	Jun 25/24			Jun25/24	Jun25/24		Jun25/24
	,			ηr			hul
	Aluminum (ppm)				Chromium (pp	om)	
	4				Severe		
	E ⁴⁰ Abnormal			Ш	Abnormal		
	0			4			4
	Jun 25/24			Jun25/24	Jun25/24		Jun25/24
	,			Jui			Jur
	Copper (ppm)			20	Silicon (ppm)		
	7				Q		
	E 100 - Abnormal			톱 10			-
	04			24			4
	Jun 25/24			Jun25/24	Jun25/24		Jun25/24
				٦٢			'nſ
	Viscosity @ 40°C			400	Additives		
	ට 150 - Abnormal දි 100 - Abnormal			E 300	calcium calcium		
	ਉਂ 100 - Abnormal			E 300)- zinc		
	50			100			24
	Jun 25/24			Jun25/24	Jun25/24		Jun25/2
CALA Laboratory Sample No. Lab Number	: WearCheck - C8-1175 : WC0914644 : 02644648 : 5802187	5 Appleby Recei Teste Diagr	ived : 28 d : 28	igton, ON L7 3 Jun 2024 3 Jun 2024 3 Jun 2024 - W	L 5H9	2125 - 20TH A	ONTRACTING AVENUE EAST IN SOUND, ON CA N4K 5P7

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Contact/Location: Daniel Fleet - ECKOWE Page 2 of 2