

Machine Id CATERPILLAR AD30 TRK Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0940531	WC0750488	
	Sample Date		Client Info		26 May 2024	09 Aug 2023	
	Machine Age	hrs	Client Info		4134	3877	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185(m)		22	16	
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		0	<1	
	Nickel	ppm	ASTM D5185(m)		0	0	
	Titanium	ppm	ASTM D5185(m)	>2	0	0	
	Silver	ppm	ASTM D5185(m)	>2	0	<1	
	Aluminum	ppm	ASTM D5185(m)	>25	<1	1	
	Lead	ppm	ASTM D5185(m)	>40	<1	<1	
	Copper	ppm	ASTM D5185(m)	>330	8	3	
	Tin	ppm	ASTM D5185(m)	>15	0	<1	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
	0'''			05	•	~	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	3	5	
Light fuel dilution occurring.	Potassium	ppm	ASTM D5185(m)	>20	0	0	
	Fuel	%	ASTM D7593*	>5	▲ 4.3	▲ 3.5	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot %	%	ASTM D7844*		0.1	0	
	Nitration	Abs/cm	ASTM D7624*	>20	8.6	6.7	
	Sulfation	Abs/.1mm	ASTM D7415*		20.7	19.4	
	Silt	scalar	Visual*	NONE	NONE		
	Debris		Visual*	NONE	NONE		
	Sand/Dirt		Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor Emulaified Water	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar	visual	>0.2	NEG	NEG	
FLUID CONDITION Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.	Sodium	ppm	ASTM D5185(m)	>158	2	<1	
	Boron	ppm	ASTM D5185(m)	250	7	3	
	Barium	ppm	ASTM D5185(m)	10	0	0	
	Molybdenum	ppm	ASTM D5185(m)	100	65	74	
	Manganese	ppm	ASTM D5185(m)		<1	<1	
	Magnesium	ppm	ASTM D5185(m)	450	933	1036	

Calcium

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

Phosphorus

ppm

ppm

ppm

ppm

1323

1116

1253

2782

14.0

11.6

1210

1001

1147

2647

16.9

11.3

ASTM D5185(m) 3000

ASTM D5185(m) 1150

ASTM D5185(m) 1350

ASTM D5185(m) 4250

ASTM D7279(m) 14.4

Abs/.1mm ASTM D7414* >25



