

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

Machine Id CATE Component Hydrau Fluid

CATERPILLAR 938K 938K-1 (S/N SWL00533) Component Hydraulic System

MOBIL MOBILTRANS AST 30 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		TLY0002237		
	Sample Date		Client Info		24 Jan 2024		
	Machine Age	hrs	Client Info		11925		
	Oil Age	hrs	Client Info		11424		
	Filter Age	hrs	Client Info		11424		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				ABNORMAL		
WEAR All component wear rates are normal.	Iron		ASTM D5185m	> 20	8		
	Chromium	ppm	ASTM D5185m		ہ <1		
	Nickel	ppm	ASTM D5185m		0		
		ppm		>10			
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	. 10	0		
	Aluminum	ppm	ASTM D5185m		4		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		6		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m	NONE	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	9		
	Potassium	ppm	ASTM D5185m		0		
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Water	TE TE		>0.1	NEG		
	Particles >4µm		ASTM D7647		4 24619		
	Particles >6µm		ASTM D7647		564		
	Particles >14µm		ASTM D7647		13		
	Particles >21µm		ASTM D7647		2		
	Particles >38µm		ASTM D7647		0		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		22/16/11		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		85		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		46		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		459		
	Calcium	ppm	ASTM D5185m		1758		
	Phosphorus	ppm	ASTM D5185m		781		
	Zinc	ppm	ASTM D5185m		954		
	Culture	10.00.000	ACTM DEADE		0004		

Sulfur

ppm ASTM D5185m

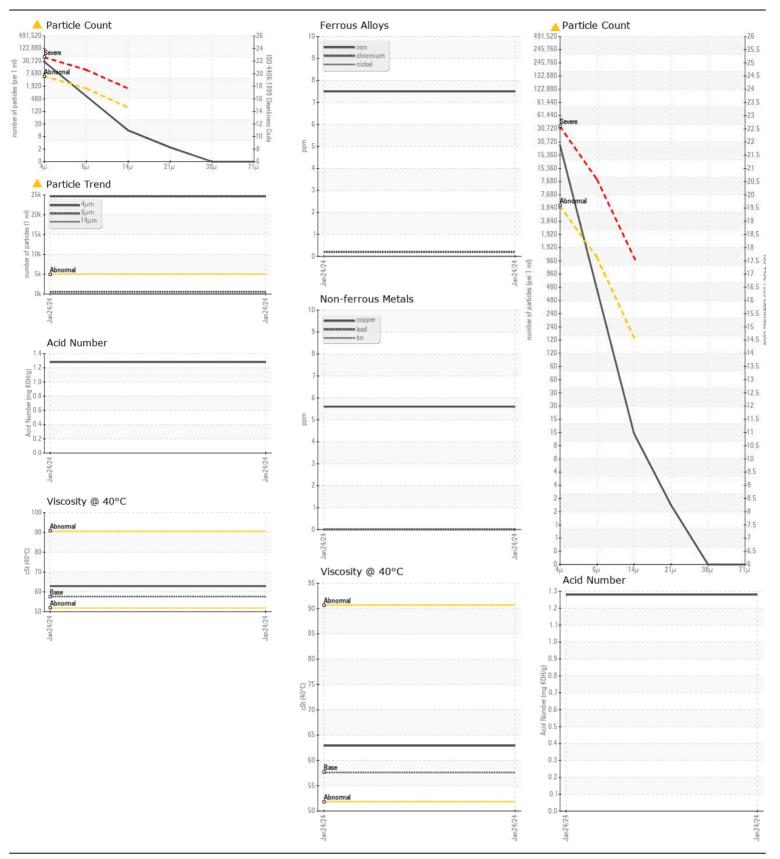
Acid Number (AN) mg KOH/g ASTM D8045

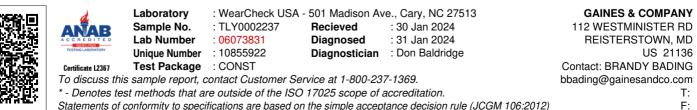
Visc @ 40°C cSt ASTM D445 57.6

3081

1.28

62.9





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Submitted By: BRANDY BADING

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