**OIL ANALYSIS REPORT** 

**WEAR CONTAMINATION FLUID CONDITION** 

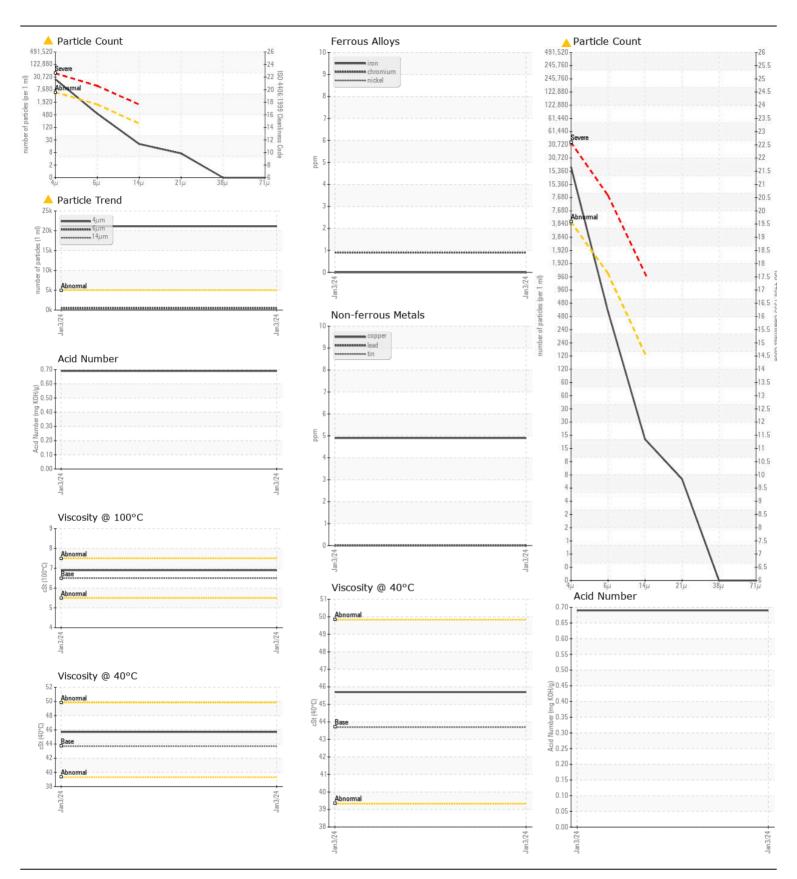
**NORMAL ABNORMAL NORMAL** 

## CATERPILLAR 966H 966H-L06 A6D00520

Component Hydraulic System

CHEVRON RANDO HD 46 (--- GAL)

OHETHORITANDO HD TO ( GAE)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR06065592		
The filter change at the time of sampling has been noted. We	Sample Date		Client Info		03 Jan 2024		
recommend an early resample to monitor this condition.	Machine Age	hrs	Client Info		26592		
	Oil Age	hrs	Client Info		1683		
	Filter Age	hrs	Client Info		1683		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m		0		
All common and water and manual	Chromium	ppm	ASTM D5185m		<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>10	0		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		5		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	0		40TM DE40E		_		
CONTAMINATION	Silicon	ppm	ASTM D5185m		2		
There is a moderate amount of silt (particulates < 14 microns in size)	Potassium	ppm	ASTM D5185m		0		
present in the oil.	Water			>0.1	NEG		
	Particles >4µm		ASTM D7647		<u>^</u> 21115		
	Particles >6µm		ASTM D7647		482		
	Particles >14µm		ASTM D7647		17		
	Particles >21µm		ASTM D7647		6		
	Particles >38μm		ASTM D7647		0		
	Particles >71μm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		<u>^ 22/16/11</u>		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML NORML		
	Odor	scalar	*Visual	NORML	_		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
I LOID CONDITION	Boron	ppm	ASTM D5185m		0		
The AN level is acceptable for this fluid. The oil is still serviceable	Barium	ppm	ASTM D5185m		0		
provided that the contaminant(s) can be reduced to acceptable levels.	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		15		
	Calcium	ppm	ASTM D5185m		146		
	Phosphorus	ppm	ASTM D5185m		569		
	Zinc	ppm	ASTM D5185m		715		
	Sulfur	ppm	ASTM D5185m		1311		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.69		
	Visc @ 40°C	cSt	ASTM D445	43.7	45.7		
	Visc @ 100°C	cSt	ASTM D445		6.9		
	Viscosity Index (VI)				106		
	VISCOSILY ITIUEX (VI)	Ocale	NOTIVI DZZI U	01	100		





Certificate L2367

Laboratory Sample No. **Unique Number** 

Lab Number

: TR06065592 : 06065592 : 10836974

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved Diagnosed

: 22 Jan 2024 Diagnostician : Wes Davis Test Package : MOB 2 ( Additional Tests: KV100, VI )

: 19 Jan 2024

To discuss this sample report, contact Customer Service at 1-800-827-0711.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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