

Machine Id CATERPILLAR 972H L10 A7D01072 Component Hydraulic System Fluid CHEVRON RANDO HD 46 (--- GAL)

DE		ΙΠΔΤΙ	

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

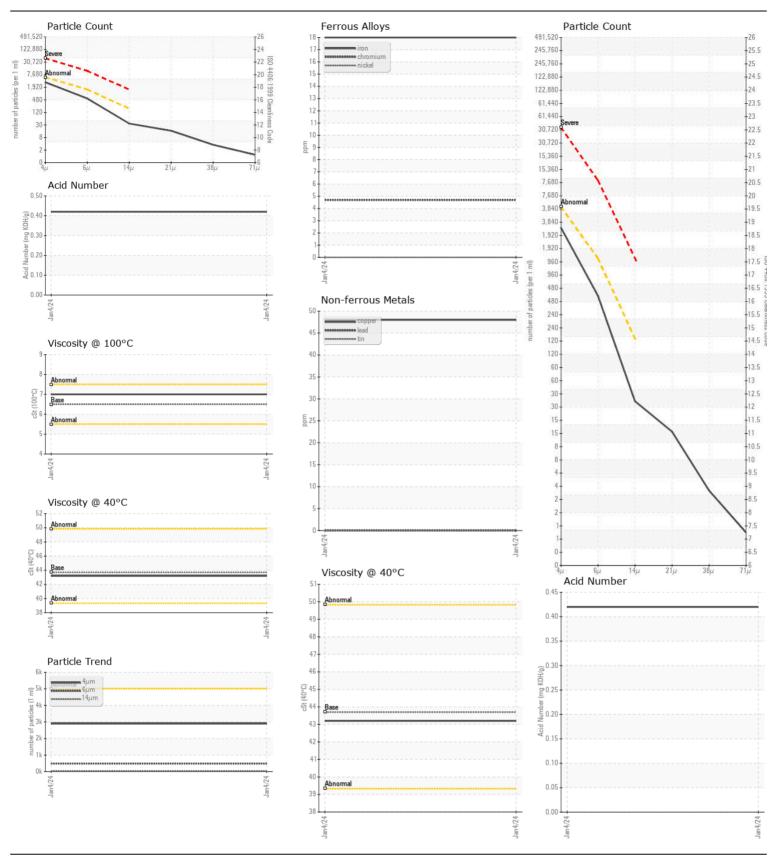
CONTAMINATION

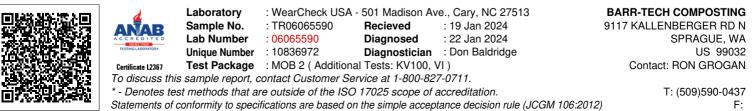
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06065590		
Sample Date		Client Info		04 Jan 2024		
Machine Age	hrs	Client Info		11282		
Oil Age	hrs	Client Info		500		
Filter Age	hrs	Client Info		500		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				NORMAL		
Iron	ppm	ASTM D5185m	>20	18		
Chromium	ppm	ASTM D5185m	>10	5		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	3		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	48		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
	Jouran	1.000				
Silicon	ppm	ASTM D5185m	>20	5		
Potassium	ppm	ASTM D5185m	>20	0		
Water	1-1-	WC Method	>0.1	NEG		
Particles >4µm		ASTM D7647	>5000	2897		
Particles >6µm		ASTM D7647	>1300	489		
Particles >14µm		ASTM D7647		31		
Particles >21µm		ASTM D7647	>40	14		
Particles >38µm		ASTM D7647		3		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)		19/16/12		
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		*Visual	>0.1	NEG		
	304141	visual	20.1			
Sodium	ppm	ASTM D5185m		1		
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		8		
Calcium	ppm	ASTM D5185m		121		
Phosphorus	ppm	ASTM D5185m		470		
Zinc	ppm	ASTM D5185m		580		
Sulfur	ppm	ASTM D5185m		1113		
Acid Number (AN)	mg KOH/g	ASTM D8045		0.42		
Visc @ 40°C	cSt	ASTM D0045 ASTM D445	43.7	43.2		
Visc @ 40 C Visc @ 100°C	cSt	ASTM D445 ASTM D445	6.5	43.2 7		
Viscosity Index (VI)	Scale	ASTM D445 ASTM D2270	97	120		
viscosity index (VI)	Scale	AGTIVI DZZ/U	37	120		





Contact/Location: RON GROGAN - BARSPRWA