

Machine Id 22-HU-1 POWER PACK Component Hydraulic System Fluid SHELL TELLUS S2 VX 22 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.



All component wear rates are normal.

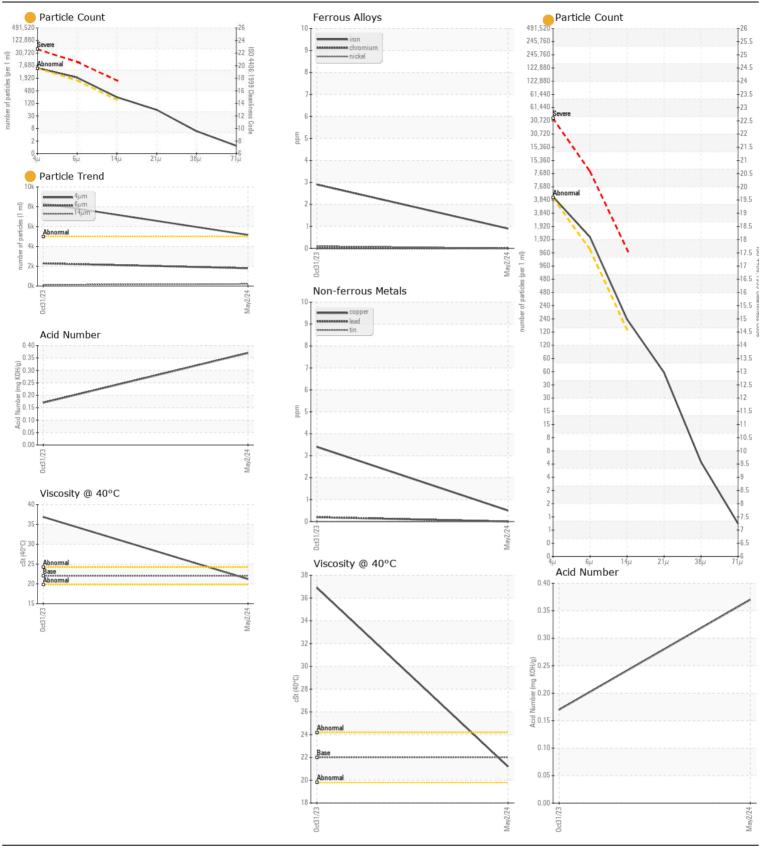
CONTAMINATION

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

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

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0820685	WC0837958	
Sample Date		Client Info		02 May 2024	31 Oct 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	N/A	
Filter Changed		Client Info		Not Changd	N/A	
Sample Status				ATTENTION	ATTENTION	
Iron	ppm	ASTM D5185(m)	>20	<1	3	
Chromium	ppm	ASTM D5185(m)	>20	0	0	
Nickel	ppm	ASTM D5185(m)	>20	0	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	
Lead	ppm	ASTM D5185(m)	>20	0	<1	
Copper	ppm	ASTM D5185(m)	>20	<1	3	
Tin	ppm	ASTM D5185(m)	>20	0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
White Metal	scalar	Visual*	NONE	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Cilicon			. 16	.4	4	
Silicon Potassium	ppm	ASTM D5185(m)	>15	<1	1	
Water	ppm	ASTM D5185(m)	>20 >0.05	<1 NEG	NEG	
		WC Method ASTM D7647	>0.05	<b>5160</b>	8331	
Particles >4µm		ASTM D7647 ASTM D7647	>1300	1796		
Particles >6µm Particles >14µm		ASTM D7647 ASTM D7647	>1300	209	2290 130	
		ASTM D7647 ASTM D7647	>40	52		
Particles >21µm		ASTM D7647 ASTM D7647	>40	52 5	19 1	
Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647	>3	5 1	1	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	e 20/18/15	20/18/14	
Silt	scalar	Visual*	NONE	NONE	NONE	
Debris	scalar	Visual*	NONE	NONE	NONE	
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.05	NEG	NEG	
	304141	Vibual	20.05		NLU	
Sodium	ppm	ASTM D5185(m)		<1	<1	
Boron	ppm	ASTM D5185(m)		<1	0	
Barium	ppm	ASTM D5185(m)		1	0	
Molybdenum	ppm	ASTM D5185(m)		0	0	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)		2	<1	
Calcium	ppm	ASTM D5185(m)		30	6	
Phosphorus	ppm	ASTM D5185(m)		278	614	
Zinc	ppm	ASTM D5185(m)		322	52	
Sulfur	ppm	ASTM D5185(m)		842	638	
Acid Number (AN)	mg KOH/g	ASTM D974*		0.37	0.17	
Visc @ 40°C	cSt	ASTM D7279(m)	22	21.2	36.9	
					00.0	



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA 回行 Sample No. : WC0820685 Received : 10 Jun 2024 Lab Number : 02640788 Tested : 11 Jun 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5789950 : 11 Jun 2024 - Wes Davis Diagnosed Test Package : IND 2 To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Vale - Clarabelle Mill MTW (Mill, Tailings & Water) COPPER CLIFF, ON CA POM 1N0 Contact: Guy Gauthier guy.gauthier@vale.com T: (705)682-5646 F: (705)682-6273

Contact/Location: Guy Gauthier - INCOCLARA Page 2 of 2