

## **OIL ANALYSIS REPORT**

### Area BLACKJACK CREEK [200007683] 41WEA88431 - K-01 (S/N HR002768-10020)

Hydraulic System SHELL TELLUS S2 VX 32 (--- LTR)

#### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

#### Wear

All component wear rates are normal.

#### Contamination

Moderate concentration of visible dirt/debris present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

			Jan2023	Apr2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX015616	NX011552	
Sample Date		Client Info		18 Apr 2024	31 Jan 2023	
Achine Age	hrs	Client Info		0	1821	
Dil Age	hrs	Client Info		0	0	
Dil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		14	11	
ron	ppm	ASTM D5185m	>20	<1	<1	
Chromium	ppm	ASTM D5185m	>20	2	<1	
lickel	ppm	ASTM D5185m	>20	<1	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>20	2	0	
ead	ppm	ASTM D5185m	>20	1	0	
Copper	ppm	ASTM D5185m	>20	8	3	
Γin	ppm	ASTM D5185m	>20	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		<1	0	
Nolybdenum	ppm	ASTM D5185m		0	<1	
<i>M</i> anganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m		2	0	
Calcium	ppm	ASTM D5185m		28	38	
Phosphorus	ppm	ASTM D5185m		279	258	
Zinc	ppm	ASTM D5185m		349	294	
Sulfur	ppm	ASTM D5185m		884	823	
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	<1	
Sodium	ppm	ASTM D5185m		0	<1	
Potassium	ppm	ASTM D5185m	>20	1	0	
Vater	%	ASTM D6304	>0.05	0.003	0.004	
opm Water	ppm	ASTM D6304	>500	38	45.0	
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000		9220	
Particles >6µm		ASTM D7647	>2500		2331	
Particles >14µm		ASTM D7647	>320		97	
Particles >21µm		ASTM D7647	>80		13	
Particles >38µm		ASTM D7647	>20		0	
Particles >71µm		ASTM D7647	>4		0	
Dil Cleanliness		ISO 4406 (c)	>21/18/15		20/18/14	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.35	0.24 DEVINTINE	

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Sample Rating Trend

**VIS DEBRIS** 



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