

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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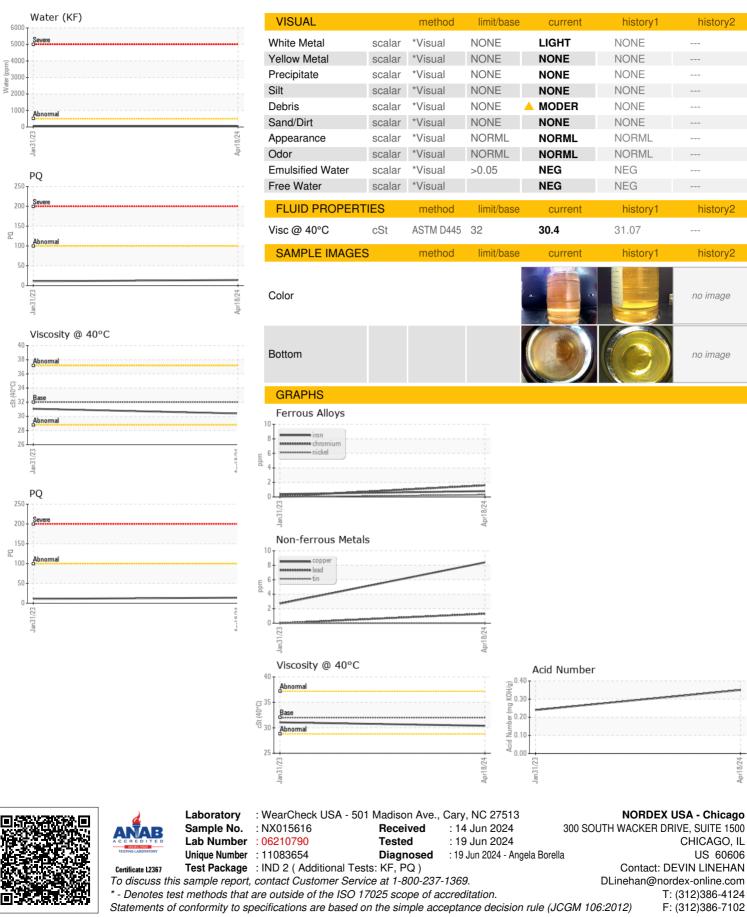
Sample Rating Trend

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