

WEAR NORMAL CONTAMINATION ATTENTION FLUID CONDITION NORMAL

THUNDER SPIRIT [200009532] NX015565 (S/N NOT GIVEN)

Hydraulic System

SHELL TELLUS S4 VX 32 (--- QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		NX015565		
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		08 May 2024		
	Machine Age	hrs	Client Info		56687		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ATTENTION		
WEAR	PQ		ASTM D8184		17		
All component wear rates are normal.	Iron	ppm	ASTM D5185m	>20	12		
	Chromium		ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	>20	0		
	Silver	ppm	ASTM D5185m		-		
	Aluminum	ppm	ASTM D5185m	> 20	<1 -1		
	Lead	ppm	ASTM D5185m ASTM D5185m		<1 4		
		ppm	ASTM D5185m		4		
	Copper Tin	ppm			-		
	Vanadium	ppm	ASTM D5185m ASTM D5185m	>20	1		
	White Metal	ppm	*Visual				
		scalar		NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	∖ 15	3		
CONTRIMINATION	Potassium	ppm	ASTM D5185m		0		
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Water	%	ASTM D6304		0.008		
	ppm Water	ppm	ASTM D6304		86		
	Particles >4µm	PPIII	ASTM D7647		15428		
	Particles >6µm		ASTM D7647		2534		
	Particles >14µm		ASTM D7647		126		
	Particles >21µm		ASTM D7647		34		
	Particles >38µm		ASTM D7647		1		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)	>21/18/15	-		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	LIGHT		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.05	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		0		
	Calcium	ppm	ASTM D5185m		0		
	Discourt						
	Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m		581 47		

Sulfur

ppm ASTM D5185m

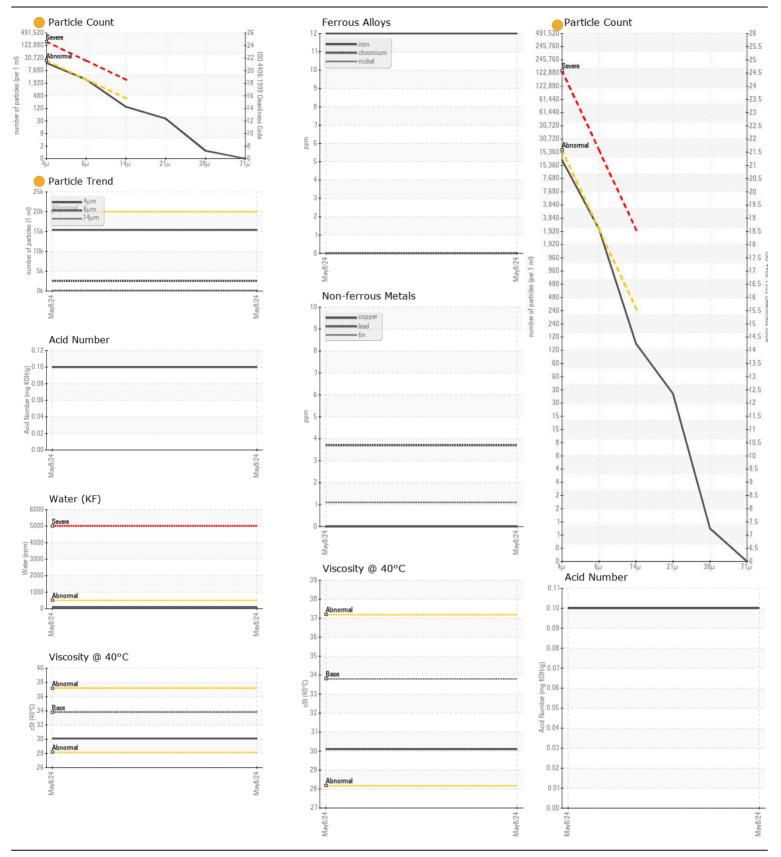
Acid Number (AN) mg KOH/g ASTM D8045

Visc @ 40°C cSt ASTM D445 33.8

937

0.10

30.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **NORDEX USA - Chicago** 回読 Sample No. : NX015565 300 SOUTH WACKER DRIVE, SUITE 1500 Received : 24 May 2024 Lab Number : 06190446 Tested : 29 May 2024 CHICAGO, IL : 29 May 2024 - Don Baldridge US 60606 Unique Number : 11047198 Diagnosed Test Package : IND 2 (Additional Tests: KF, PQ) Contact: DEVIN LINEHAN Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. DLinehan@nordex-online.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (312)386-4124 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (312)386-7102

Contact/Location: DEVIN LINEHAN - NORDEX Page 2 of 2