

### **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# 5000870 (S/N 500044094)

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

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

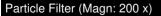
All component wear rates are normal.

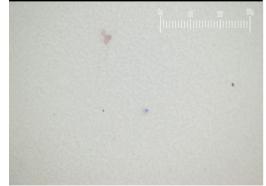
#### Contamination

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

### Fluid Condition

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





SAMPLE INFORM	NATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PH0003822	PH0002333	PH0002578	
Sample Date		Client Info		24 May 2024	18 Apr 2024	30 Mar 2024	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATION	N	method	limit/base	current	history1	history2	
Water		WC Method	>0.05	NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	0	0	0	
Chromium	ppm	ASTM D5185m	>20	<1	0	<1	
Nickel	ppm	ASTM D5185m	>20	0	0	0	
Titanium	ppm	ASTM D5185m		0	0	<1	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	0	3	
Lead	ppm	ASTM D5185m	>20	0	0	<1	
Copper	ppm	ASTM D5185m	>20	<1	<1	1	
Tin	ppm	ASTM D5185m	>20	0	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		0	0	0	
Barium	ppm	ASTM D5185m		0	0	<1	
Molybdenum	ppm	ASTM D5185m		0	0	0	
Manganese	ppm	ASTM D5185m		0	0	0	
Magnesium	ppm	ASTM D5185m		<1	0	<1	
Calcium	ppm	ASTM D5185m		28	34	57	
Phosphorus	ppm	ASTM D5185m		293	276	301	
Zinc	ppm	ASTM D5185m		334	314	339	
Sulfur	ppm	ASTM D5185m		769	841	835	
					-		
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm		>15	0	0	<1	
Sodium	ppm	ASTM D5185m		0	<1	0	
Potassium	ppm	ASTM D5185m		<1	0	1	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	190	662	1189	
Particles >6µm		ASTM D7647	>1300	54	90	161	
Particles >14µm		ASTM D7647	>160	6	7	20	
Particles >21µm		ASTM D7647	>40	1	3	7	
Particles >38µm		ASTM D7647	>10	0	0	0	
Particles >71µm		ASTM D7647	>3	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	15/13/10	17/14/10	17/15/11	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		0.23	0.25	0.27	

Report Id: WOOFORCO [WUSCAR] 06202686 (Generated: 06/11/2024 15:00:35) Rev: 1

Contact/Location: ALMA TOVAR - WOOFORCO



30 Abnormal

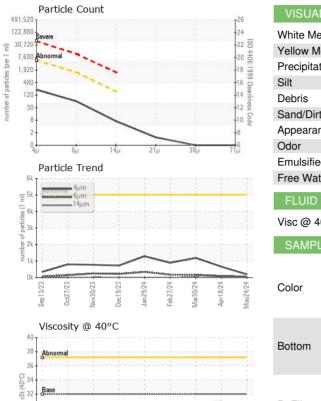
28 26

Sep13/23

0ct27/23

Vov30/23 Dec19/23 10/0Cue

# **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	30.2	30.9	30.8
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						
PrtFilter				*		

Particle Trend 6 f particles (1 ml) 8 4 k 3 k ÷ in 2k 21 n, Sep13/23 Vov30/23 Feb27/24 Mar30/24 0ct27/23 Jan 29/24 Per19/7 Apr18/24

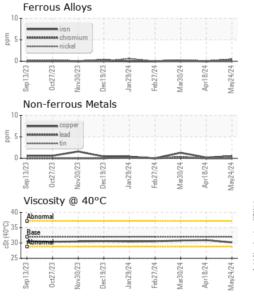
eb27/24

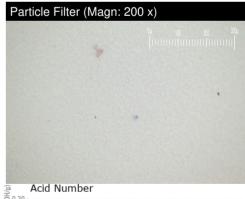
r30/74

/av24/24

GRAPHS

Apr18/24





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### WOODWARD INC - DRAKE

1000 E DRAKE RD FORT COLLINS, CO US 80525 Contact: ALMA TOVAR alma.tovar@woodward.com T: F:

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Laboratory
                             : WearCheck USA - 501 Madison Ave., Cary, NC 27513
                             : PH0003822
               Sample No.
                                                      Received
                                                                    : 07 Jun 2024
               Lab Number : 06202686
                                                      Tested
                                                                    : 11 Jun 2024
               Unique Number : 11070147
                                                      Diagnosed
                                                                    : 11 Jun 2024 - Jonathan Hester
               Test Package : PLANT (Additional Tests: PrtFilter)
To discuss this sample report, contact Customer Service at 1-800-237-1369.
* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)
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Certificate 12367

Contact/Location: ALMA TOVAR - WOOFORCO