

OIL ANALYSIS REPORT

Sample Date

Machine Age

Oil Changed

Sample Status

Oil Age

Water

Iron Chromium

Nickel

Silver

Lead

Tin

Copper

Titanium

Aluminum

Vanadium

Cadmium

Sample Rating Trend



Machine Id

5000831 (S/N 500044096)

Reservoir Hydraulic System

SHELL TELLUS S2 VX 32 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

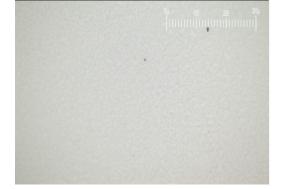
Contamination

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.

Particle Filter (Magn: 200 x)



SAMPLE INFORMATION method PH0003824 PH0001306 PH0002563 Sample Number **Client Info** 24 May 2024 22 Apr 2024 28 Mar 2024 Client Info 0 0 hrs **Client Info** 0 hrs Client Info 0 0 0 **Client Info** N/A N/A N/A NORMAL NORMAL NORMAL CONTAMINATION >0.05 NEG NEG NEG WC Method WEAR METALS ppm ASTM D5185m >20 0 0 0 ASTM D5185m >20 <1 0 <1 ppm 0 0 ppm ASTM D5185m >20 <1 ASTM D5185m 0 0 0 ppm 0 0 ppm ASTM D5185m <1 ppm ASTM D5185m >20 2 0 1 >20 0 0 0 ASTM D5185m ppm >20 0 0 0 ppm ASTM D5185m 0 ASTM D5185m >20 0 0 ppm 0 0 0 ppm ASTM D5185m 0 ppm ASTM D5185m 0 <1

Boron	ppm	ASTM D5185m	0	0	74
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	30
Manganese	ppm	ASTM D5185m	0	0	<1
Magnesium	ppm	ASTM D5185m	0	0	133
Calcium	ppm	ASTM D5185m	0	0	1497
Phosphorus	ppm	ASTM D5185m	674	680	684
Zinc	ppm	ASTM D5185m	7	0	827
Sulfur	ppm	ASTM D5185m	0	20	3739

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	5
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	0	2

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	196	407	422
Particles >6µm	ASTM D7647	>1300	77	78	124
Particles >14µm	ASTM D7647	>160	12	7	15
Particles >21µm	ASTM D7647	>40	4	3	5
Particles >38µm	ASTM D7647	>10	1	0	1
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	15/13/11	16/13/10	16/14/11
FLUID DEGRADATION	method				history2

Acid Number (AN)

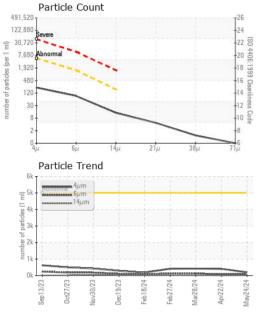
mg KOH/g ASTM D8045

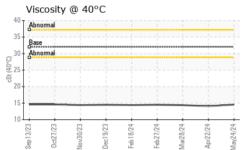
0.045 0.081 0.045 Contact/Location: ALMA TOVAR - WOOFORCO

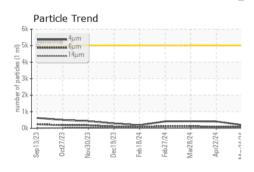
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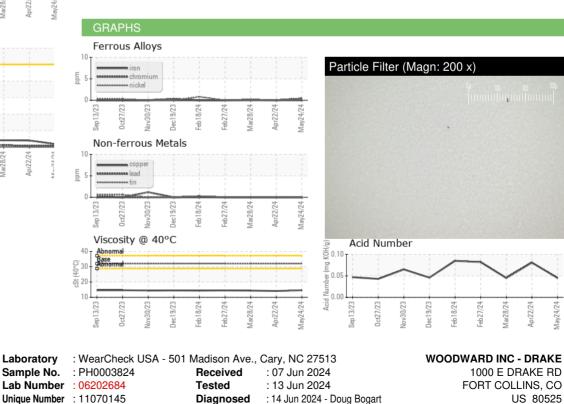
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.57	14.1	14.4
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					•	
Bottom						
PrtFilter						





Unique Number : 11070145 Diagnosed : 14 Jun 2024 - Doug Bogart Test Package : PLANT (Additional Tests: PrtFilter) Certificate 12367 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)

Laboratory

Sample No.

Contact/Location: ALMA TOVAR - WOOFORCO

T:

F:

Contact: ALMA TOVAR

alma.tovar@woodward.com