

## **OIL ANALYSIS REPORT**

Sample Rating Trend

### **VIS DEBRIS**

Machine Id

# LEROI BIG VRU 1 (S/N 5329X3021)

Compressor Fluid

SHELL MORLINA S4 B 460 (--- QTS)

#### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component if applicable. 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 suitable for further service.

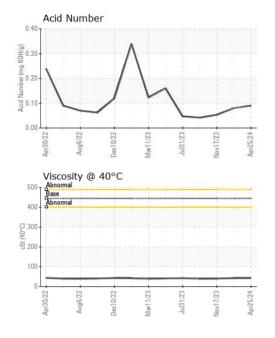
		Apr2022	Aug2022 Dec2022	Mar2023 Jul2023 Nov202	3 Apr2024	•	
SAMPLE INFORM		method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0837922	WC0837886	WC0837895	
Sample Date		Client Info		25 Apr 2024	01 Jan 2024	17 Nov 2023	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed	1113	Client Info		N/A	N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL	
CONTAMINATION	J	method	limit/base		history1	history2	
Water		WC Method	>0.1	NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	6	3	6	
Chromium	ppm	ASTM D5185m	>10	0	0	0	
Nickel	ppm	ASTM D5185m		0	0	<1	
Titanium	ppm	ASTM D5185m		0	<1	0	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m	>25	0	0	0	
Lead	ppm	ASTM D5185m	>25	0	0	0	
Copper	ppm	ASTM D5185m		0	<1	0	
Tin	ppm	ASTM D5185m	>15	0	0	0	
Vanadium	ppm	ASTM D5185m	210	0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		0	0	0	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m		0	0	0	
Vanganese	ppm	ASTM D5185m		0	0	<1	
Magnesium	ppm	ASTM D5185m		0	0	<1	
Calcium		ASTM D5185m		0	0	2	
	ppm	ASTM D5185m		0	27	15	
Phosphorus Zinc	ppm	ASTM D5185m		0	0		
-	ppm			-		0	
Sulfur	ppm	ASTM D5185m		44	145	64	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	0	0	0	
Sodium	ppm	ASTM D5185m		3	<1	2	
Potassium	ppm	ASTM D5185m	>20	0	0	1	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>10000				
Particles >6µm		ASTM D7647	>2500				
Particles >14µm		ASTM D7647	>320				
Particles >21µm		ASTM D7647	>80				
Particles >38µm		ASTM D7647	>20				
Particles >71µm		ASTM D7647	>4				
Oil Cleanliness		ISO 4406 (c)	>20/18/15				
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		0.09	0.08	0.053	
:59:37) Rev: 1		Contact/Location: DEREK HARGRAVE - HILVANWC					

Report Id: HILVANWC [WUSCAR] 06161422 (Generated: 05/04/2024 04:59:37) Rev: 1

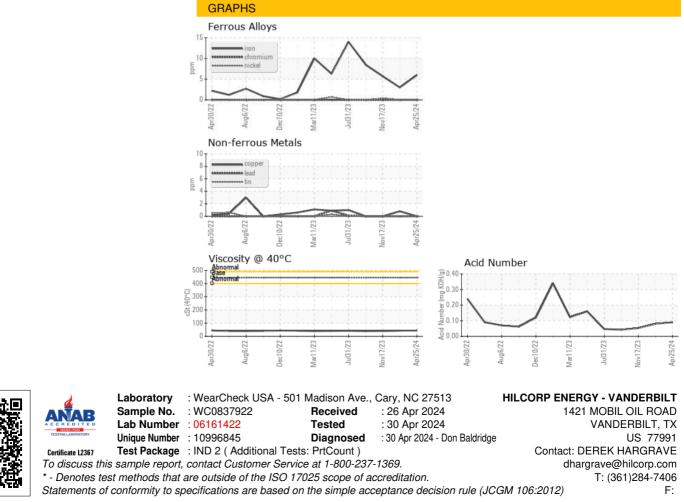
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	LIGHT	🔺 MODER
Debris	scalar	*Visual	NONE	🔺 MODER	🔺 MODER	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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	445	43.0	42.7	40.1
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						•
Bottom						



Contact/Location: DEREK HARGRAVE - HILVANWC