

OIL ANALYSIS REPORT

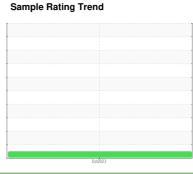
NORMAL

Paper Side

83-1440 2nd Felt Uhle Box Vac Pump WEST

Gear Reducer

SHELL MORLINA S4 B 220 (--- GAL)





Recommendation

Resample at the next service interval to monitor.

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.

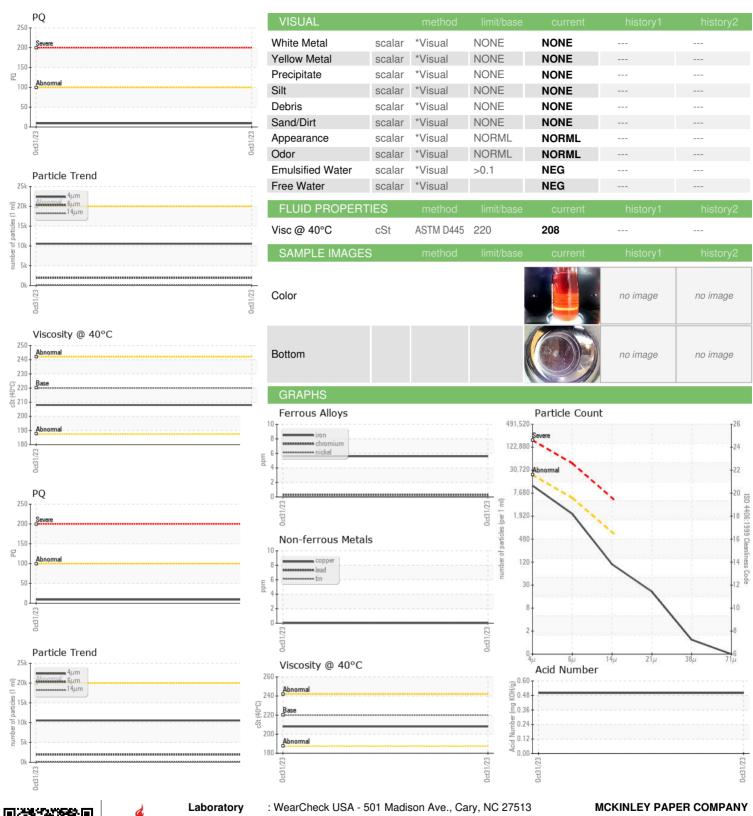
Fluid Condition

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

				Oct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PE0001443		
Sample Date		Client Info		31 Oct 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		4000		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		9		
Iron	ppm	ASTM D5185m	>150	6		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	2		
Lead	ppm	ASTM D5185m	>100	0		
Copper	ppm	ASTM D5185m	>50	0		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	ourront	history1	history2
Boron	nnm	ASTM D5185m	IIIIII/Dase	current 2		
	ppm			0		
Barium	ppm	ASTM D5185m				
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		3		
Calcium	ppm	ASTM D5185m		6		
Phosphorus	ppm	ASTM D5185m		431		
Zinc	ppm	ASTM D5185m		7		
Sulfur	ppm	ASTM D5185m		1156		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	20		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	<1		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	10534		
Particles >6μm		ASTM D7647	>5000	1930		
Particles >14µm		ASTM D7647	>640	93		
Particles >21µm		ASTM D7647	>160	18		
Particles >38µm		ASTM D7647	>40	1		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/18/14		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.50		



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Certificate L2367

Sample No. Lab Number **Unique Number**

: PE0001443 : 06001502 : 10729862

Received : 08 Nov 2023

Diagnosed : 09 Nov 2023 Diagnostician : Jonathan Hester

Test Package : PLANT (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN) 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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