**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

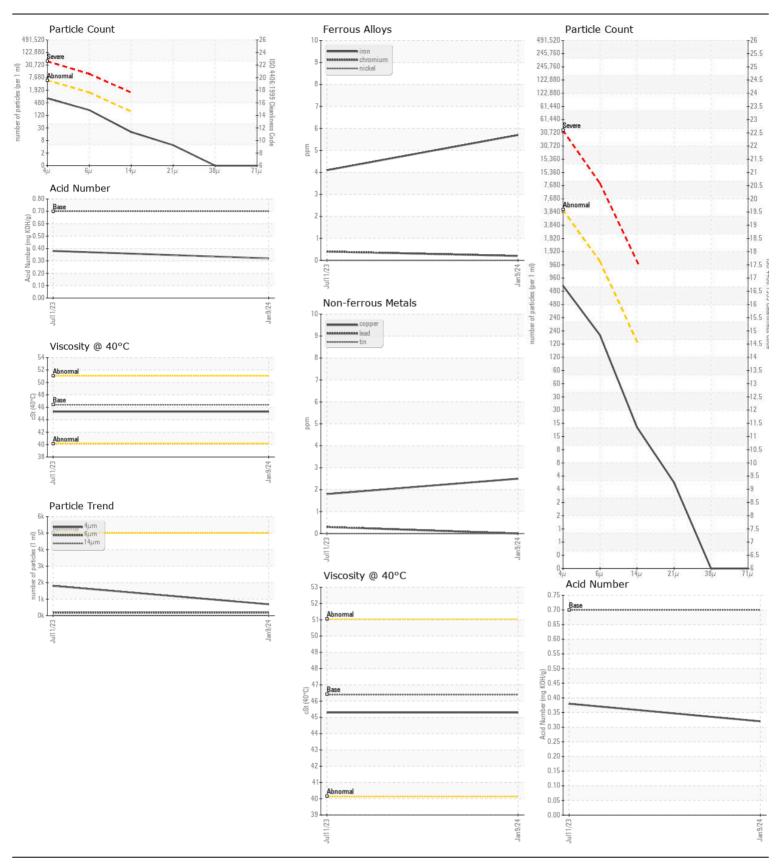
Machine Id

**NB650-4** 

Component Hydraulic System Fluid

<b>PETRO</b>	<b>CANADA</b>	<b>HYDREX</b>	<b>AW 46</b>	( GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		KFS0001666	KFS0001681	
Resample at the next service interval to monitor.	Sample Date		Client Info		09 Jan 2024	11 Jul 2023	
	Machine Age	hrs	Client Info		0	0	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185m	>20	6	4	
	Chromium	ppm	ASTM D5185m	>20	<1	<1	
all component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>20	2	0	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		2	2	
	Tin	ppm	ASTM D5185m		0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	nnm	ASTM D5185m	<15	<1	<1	
ONTAMINATION	Potassium	ppm	ASTM D5185m	-	1	<1	
he amount and size of particulates present in the system are	Water	%	ASTM D316301		NEG	NEG	
cceptable. There is no indication of any contamination in the oil.	Particles >4µm	70	ASTM D0304 ASTM D7647		689	1809	
	Particles >6µm		ASTM D7647		189	179	
	Particles >14µm		ASTM D7647		17	12	
	Particles >21µm		ASTM D7647		4	3	
	Particles >38µm		ASTM D7647		0	0	
	Particles >71µm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		17/15/11	18/15/11	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.05	NEG	NEG	
LUID CONDITION	Codium	nnm	ASTM D5185m			0	
LOID CONDITION	Sodium Boron	ppm	ASTM D5185m	0	0	0	
he AN level is acceptable for this fluid. The condition of the oil is	Barium	ppm	ASTM D5165III		0	2	
uitable for further service.	Molybdenum	ppm	ASTM D5185m		0	0	
	Manganese	ppm	ASTM D5185m		0	0	
	Magnesium		ASTM D5185m		1	1	
	Calcium	ppm	ASTM D5185m		73	75	
	Phosphorus	ppm	ASTM D5165III		73 446	379	
	Zinc	ppm	ASTM D5185m	430	545	541	
	Sulfur	ppm	ASTM D5185m			2770	
	Juliui	ppm			2738		
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.70	0.32	0.38	





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KFS0001666 Recieved : 12 Jan 2024 : 16 Jan 2024 : 06060186 Diagnosed : 10831568 Diagnostician Test Package : PLANT

: Jonathan Hester

**MARELLI** 181 BENNETT DR PULASKI, TN US 38478 Contact: Service Manager

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)

T: F: