WEAR CONTAMINATION FLUID CONDITION

ABNORMAL ABNORMAL NORMAL

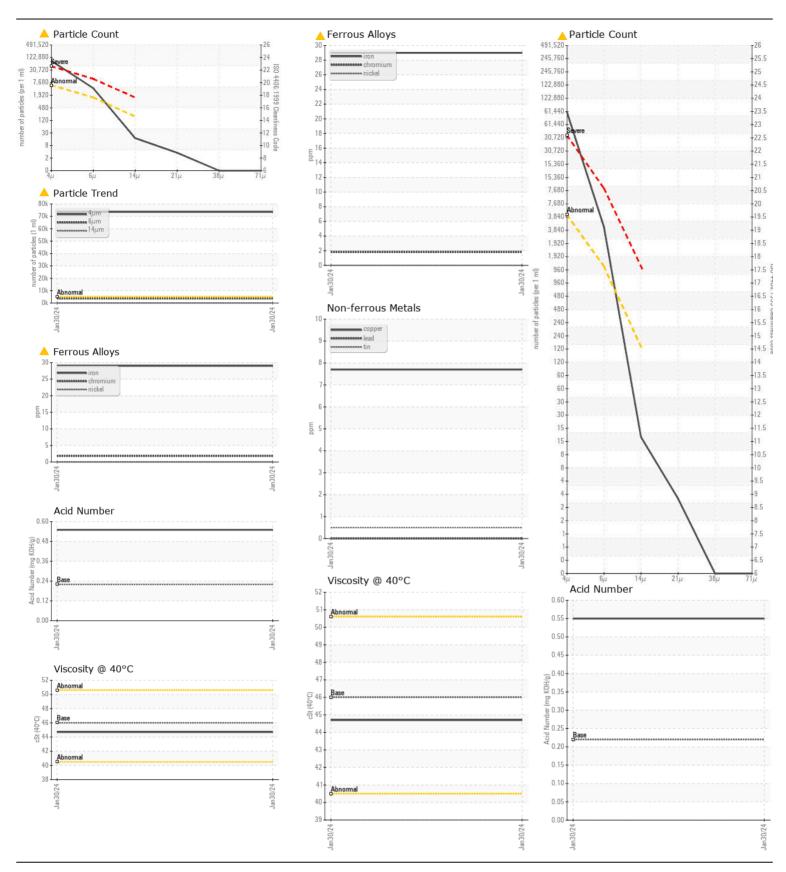
Machine Id

E-130

Component Hydraulic System

PHILLIPS 66 Powerflow NZ AW46 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend you convice the filters on this companent. Decemble of	Sample Number		Client Info		WC0878688		
We recommend you service the filters on this component. Resample at the next service interval to monitor.	Sample Date		Client Info		30 Jan 2024		
	Machine Age	hrs	Client Info		10325		
	Oil Age	hrs	Client Info		849		
	Filter Age	hrs	Client Info		849		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>20	29		
	Chromium	ppm	ASTM D5185m		2		
The iron level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>10	4		
	Lead	ppm	ASTM D5185m	>10	0		
	Copper	ppm	ASTM D5185m	>75	8		
	Tin	ppm	ASTM D5185m	>10	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
NONT A BAIN A TION	Ciliaar		ACTM DE40E	00	40		
CONTAMINATION	Silicon	ppm	ASTM D5185m		13		
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Potassium	ppm	ASTM D5185m		<1 NEC		
	Water		WC Method		NEG		
	Particles >4µm		ASTM D7647		▲ 73530 ▲ 2646		
	Particles >6µm		ASTM D7647		▲ 3646 15		
	Particles >14µm		ASTM D7647		15 3		
	Particles >21µm Particles >38µm		ASTM D7647 ASTM D7647		0		
	Particles >30µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		<u> </u>		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1		
The AN level is acceptable for this fluid. The condition of the oil is	Boron	ppm	ASTM D5185m		<1		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		<1		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		4		
	Calcium	ppm	ASTM D5185m		330		
	Phosphorus	ppm	ASTM D5185m		408		
	Zinc	ppm	ASTM D5185m		479		
	Sulfur	ppm	ASTM D5185m	0.05	1178		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.55		
	Visc @ 40°C	cSt	ASTM D445	46	44.7		





Certificate L2367

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

: WC0878688 : 06075641 : 10857732 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 31 Jan 2024 Recieved Diagnosed : 01 Feb 2024 : Don Baldridge Diagnostician

DUKE LAZZARA 4201 FAYETTEVILLE RD RALEIGH, NC US 27603

Contact: NICK DIXON NICK.DIXON@DUKELAZZAM.COM

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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