WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL NORMAL

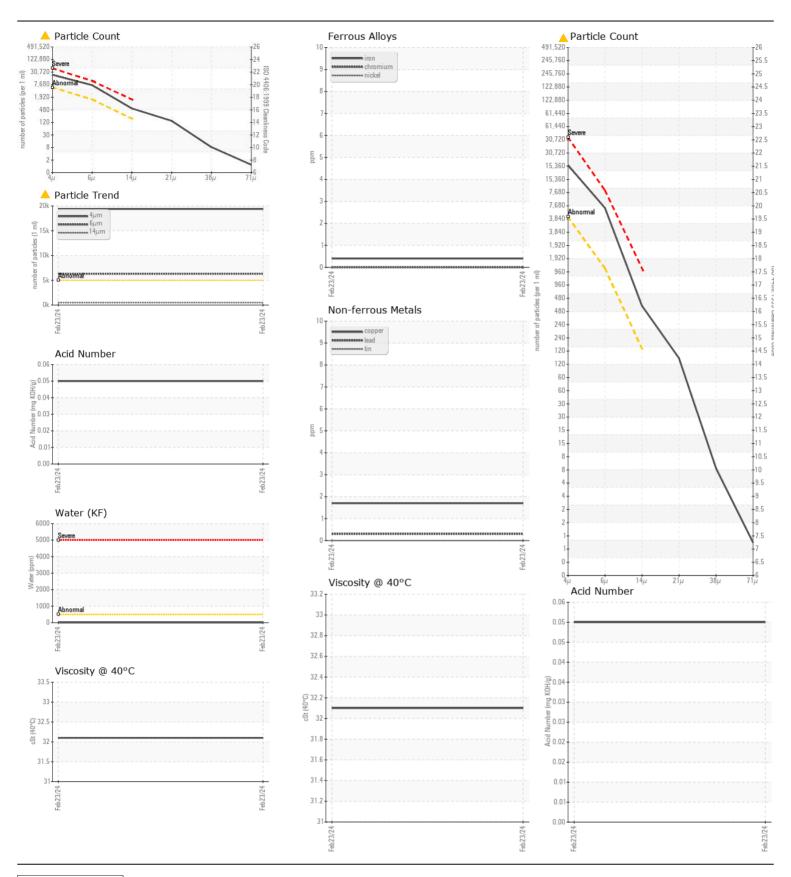
Machine Id TURBINE

Component Lube System

PHILLIPS 66 TURBINE OIL ISO 32 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		PE0001865		
We recommend you service the filters on this component. Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry update for oil type	Sample Date		Client Info		23 Feb 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	PQ		ASTM D8184		19		
WLAN	Iron	ppm	ASTM D5185m	>20	<1		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	<i>></i> 20	0		
	Silver		ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>20	0		
		ppm					
	Lead	ppm	ASTM D5185m		<1 2		
	Copper	ppm	ASTM D5185m				
	Tin	ppm	ASTM D5185m	>20	0		
	Vanadium	ppm	ASTM D5185m	NONE	0 NONE		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>15	<1		
	Potassium	ppm	ASTM D5185m	>20	0		
There is a high amount of particulates present in the oil. The water content is negligible.	Water	%	ASTM D6304	>0.05	0.001		
	ppm Water	ppm	ASTM D6304	>500	9		
	Soot %	%	*ASTM D7844		0		
	Nitration		*ASTM D7624		1.7		
	Sulfation	Abs/.1mm	*ASTM D7415		10.7		
	Particles >4µm	7.00	ASTM D7647	>5000	<u> 19387</u>		
	Particles >6µm		ASTM D7647		<u>▲</u> 6306		
	Particles >14µm		ASTM D7647		<u>▲</u> 489		
	Particles >21µm		ASTM D7647		<u> </u>		
	Particles >38µm		ASTM D7647		7		
	Particles >71µm		ASTM D7647		1		
	Oil Cleanliness		ISO 4406 (c)		<u>^</u> 21/20/16		
	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			>0.05	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1		
	Boron	ppm	ASTM D5185m		1		
The AN level is acceptable for this fluid. The condition of the oil is	Barium	ppm	ASTM D5185m		0		
The Ain level is acceptable for this fluid. The condition of the oil is	Molybdenum	ppm	ASTM D5185m		0		
suitable for further service.	•	ppm	ASTM D5185m		0		
•	Manganese		ASTM D5185m		<1		
•	Magnesium	ppm	AO HVI DO TOOM				
·	-		ASTM D5185m		2		
·	Magnesium	ppm			2 4		
·	Magnesium Calcium	ppm	ASTM D5185m				
•	Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		4		
· · · · · · · · · · · · · · · · · · ·	Magnesium Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m		4 0 44		
· · · · · · · · · · · · · · · · · · ·	Magnesium Calcium Phosphorus Zinc Sulfur Oxidation	ppm ppm ppm ppm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7414		4 0 44 3.5		
•	Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		4 0 44	 	

Contact/Location: GERRITT LAW - FRELYO





Certificate L2367

Report Id: FRELYO [WUSCAR] 06105934 (Generated: 03/08/2024 08:30:52) Rev: 5

Laboratory Sample No. Unique Number : 10909431

: PE0001865 Lab Number : 06105934

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 01 Mar 2024 : 08 Mar 2024 Diagnosed

: 08 Mar 2024 - Doug Bogart

FRERES ENGINEERED WOOD PRODUCTS 141 14TH ST LYONS, OR

US 97358 Test Package: PLANT (Additional Tests: FT-IR, ICP, KF, KV40, PQ, PrtCount, SCREEN) Contact: GERRITT LAW To discuss this sample report, contact Customer Service at 1-800-237-1369. glaw@frereswood.com

* - 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)

Contact/Location: GERRITT LAW - FRELYO

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