

WEAR NORMAL CONTAMINATION ATTENTION FLUID CONDITION NORMAL

Machine Id **1RW-P-0101** Component **Upper Bearing** Fluid **{not provided} (8 GAL)**

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. (Customer Sample Comment: Oil was changed last April)



All component wear rates are normal.

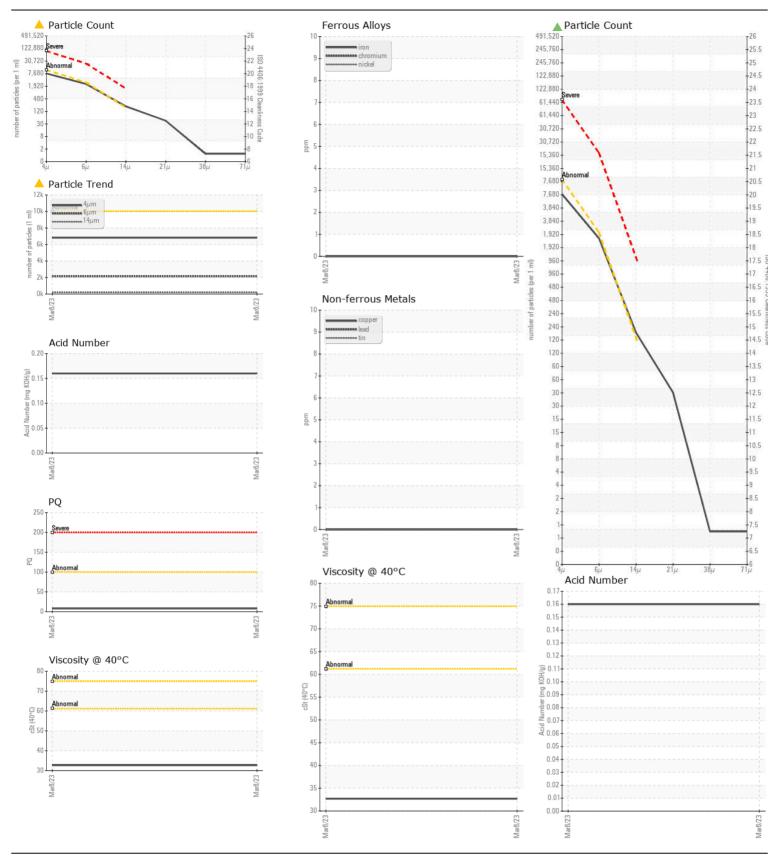
CONTAMINATION

There is a moderate amount of particulates present in the oil.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PE0000606		
Sample Date		Client Info		08 Mar 2023		
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				ATTENTION		
PQ		ASTM D8184		8		
Iron	ppm	ASTM D5185m	>20	0		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	0		
Lead	ppm	ASTM D5185m	>20	0		
Copper	ppm	ASTM D5185m	>20	0		
Tin	ppm	ASTM D5185m	>20	0		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>15	<1		
Potassium	ppm	ASTM D5185m	>20	0		
Water		WC Method	>2	NEG		
Particles >4µm		ASTM D7647		6818		
Particles >6µm		ASTM D7647	>2500	2144		
Particles >14µm		ASTM D7647	>160	182		
Particles >21µm		ASTM D7647	>40	38		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)		20/18/15		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	VLITE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>2	NEG		
Sodium	ppm	ASTM D5185m		<1		
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		5		
Calcium	ppm	ASTM D5185m		0		
Phosphorus	ppm	ASTM D5185m		106		
Zinc	ppm	ASTM D5185m		64		
Sulfur	ppm	ASTM D5185m		185		
Acid Number (AN)	mg KOH/g	ASTM D8045		0.16		
Visc @ 40°C	cSt	ASTM D445		32.7		
100 @ 10 0	501					



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **GRAYS HARBOR ENERGY** : PE0000606 401 KEYS RD Sample No. Received : 17 Mar 2023 Lab Number : 05794464 Tested : 20 Mar 2023 ELMA, WA : 21 Mar 2023 - Jonathan Hester US 98541 Unique Number : 10384148 Diagnosed Test Package : PLANT (Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN) Contact: TOM FAGERNESS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. tfagerness@invenergy.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (360)482-4353 F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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