

OIL ANALYSIS REPORT







DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: Top Up Amount: 30 GAL)

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal.

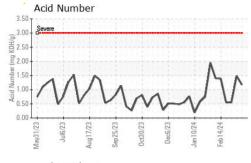
Fluid Condition

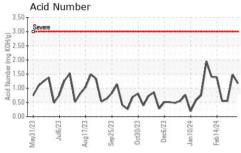
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

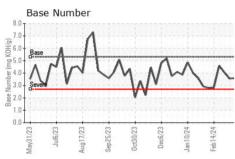
SAMPLE INFORM		1/2023 Jul202	3 Augzuzs Sepzuzs	UCIZUZS DECZUZS Janzuz4 1	F602024	
	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0775498	WC0775495	WC0775482
Sample Date		Client Info		26 Mar 2024	15 Mar 2024	04 Mar 2024
Machine Age	hrs	Client Info		109078	108815	108573
Oil Age	hrs	Client Info		628	389	147
Oil Changed		Client Info		Oil Added	Oil Added	Oil Added
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.11	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	4	4	3
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m		<1	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>6	3	3	3
Lead	ppm	ASTM D5185m	>9	0	<1	<1
Copper	ppm	ASTM D5185m	>6	2	2	1
Tin	ppm	ASTM D5185m	>4	3	4	2
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		5	6	6
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		4	4	4
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		15	16	15
Calcium	ppm	ASTM D5185m				
	1-1-			1481	1570	1388
Phosphorus	mag	ASTM D5185m	300	-		
Phosphorus Zinc	ppm		300	302	328	1388 312 410
Zinc	ppm ppm	ASTM D5185m	300	-		312
Zinc	ppm ppm	ASTM D5185m ASTM D5185m	300 limit/base	302 397	328 438	312 410
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		302 397 3315	328 438 3503	312 410 3012
Zinc Sulfur CONTAMINANTS	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	302 397 3315 current	328 438 3503 history1	312 410 3012 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base >181 >21	302 397 3315 current ▲ 199	328 438 3503 history1	312 410 3012 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	limit/base >181 >21	302 397 3315 current ▲ 199 6	328 438 3503 history1 158 3	312 410 3012 history2 83 5
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >181 >21 >20	302 397 3315 current 199 6	328 438 3503 history1 158 3	312 410 3012 history2 83 5
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >181 >21 >20	302 397 3315	328 438 3503 history1 158 3 2 history1	312 410 3012 history2 83 5 2 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	limit/base >181 >21 >20	302 397 3315 current ▲ 199 6 0	328 438 3503 history1 158 3 2 history1	312 410 3012 history2 83 5 2 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	limit/base >181 >21 >20	302 397 3315	328 438 3503 history1 158 3 2 history1 0 4.4	312 410 3012 history2 83 5 2 history2 0 3.9
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >181 >21 >20 limit/base	302 397 3315 current 199 6 0 current 0 4.8 21.0 current	328 438 3503 history1 158 3 2 history1 0 4.4 19.7 history1	312 410 3012 history2 83 5 2 history2 0 3.9 17.7 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	limit/base >181 >21 >20 limit/base	302 397 3315 current ▲ 199 6 0 current 0 4.8 21.0	328 438 3503 history1 158 3 2 history1 0 4.4 19.7	312 410 3012 history2 83 5 2 history2 0 3.9 17.7

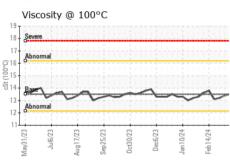


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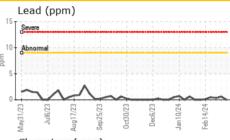


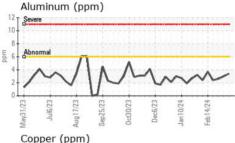
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.11	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

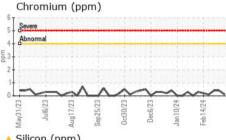
FLUID PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.5	13.5	13.4	13.2

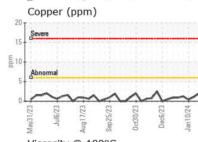
Seve	ere	 				
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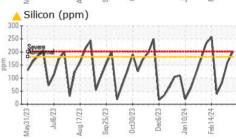
GRAPHS

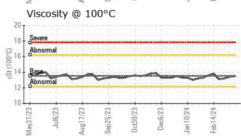


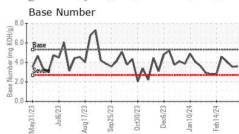
















Certificate L2367

Laboratory Sample No.

Lab Number : 06132224

: WC0775498 Unique Number: 10951689 Test Package : MOB 2

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

Diagnosed

: 28 Mar 2024 : 29 Mar 2024

: 02 Apr 2024 - Sean Felton

EDL NA Recips-Honeybrook Honey Brook Powerstation, 481 S. Churchtown Road

Narvon, PA US 17555-9574

Contact: Christian Adames Christian.Adames@edlenergy.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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F: