

OIL ANALYSIS REPORT

Sample Rating Trend









DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Top Up Amount: 30 GAL)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

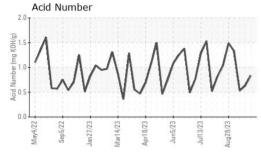
Fluid Condition

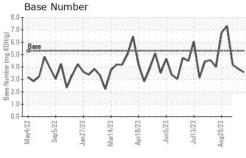
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

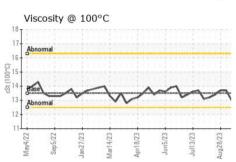
6 (GAL)		y/2022 Sep20.	22 Jan2023 Mar2023	Apr2023 Jun2023 Jul2023	Aug2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0775337	WC0775340	WC0775351
Sample Date		Client Info		25 Sep 2023	18 Sep 2023	11 Sep 2023
Machine Age	hrs	Client Info		105443	105281	105130
Oil Age	hrs	Client Info		432	270	119
Oil Changed		Client Info		Oil Added	Oil Added	Oil Added
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	V	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	4	3	1
Chromium	ppm	ASTM D5185m	>4	0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>6	4	<1	0
Lead	ppm	ASTM D5185m	>9	<1	<1	1
Copper	ppm	ASTM D5185m	>6	1	<1	0
Tin	ppm	ASTM D5185m	>4	3	2	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 2	history1	history2
	ppm		limit/base		•	
Boron		ASTM D5185m	limit/base	2	1	3
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	2	1 0	3
Boron Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	2 0 6	1 0 6 0 28	3 0 6
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	2 0 6 0 25 1538	1 0 6	3 0 6 <1 28 1593
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	2 0 6 0 25	1 0 6 0 28	3 0 6 <1 28
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		2 0 6 0 25 1538 338 396	1 0 6 0 28 1569 333 400	3 0 6 <1 28 1593 334 399
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		2 0 6 0 25 1538 338	1 0 6 0 28 1569 333	3 0 6 <1 28 1593 334
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		2 0 6 0 25 1538 338 396	1 0 6 0 28 1569 333 400	3 0 6 <1 28 1593 334 399
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	300 limit/base	2 0 6 0 25 1538 338 396 3095	1 0 6 0 28 1569 333 400 3400	3 0 6 <1 28 1593 334 399 3412
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	300 limit/base	2 0 6 0 25 1538 338 396 3095	1 0 6 0 28 1569 333 400 3400 history1	3 0 6 <1 28 1593 334 399 3412 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	300 limit/base >181	2 0 6 0 25 1538 338 396 3095 current	1 0 6 0 28 1569 333 400 3400 history1	3 0 6 <1 28 1593 334 399 3412 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	300 limit/base >181	2 0 6 0 25 1538 338 396 3095 current	1 0 6 0 28 1569 333 400 3400 history1 108 <1	3 0 6 <1 28 1593 334 399 3412 history2 54 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	300 limit/base >181 >20	2 0 6 0 25 1538 338 396 3095 current 156 <1	1 0 6 0 28 1569 333 400 3400 history1 108 <1 <1	3 0 6 <1 28 1593 334 399 3412 history2 54 <1 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	300 limit/base >181 >20 limit/base	2 0 6 0 25 1538 338 396 3095 current 156 <1 0	1 0 6 0 28 1569 333 400 3400 history1 108 <1 <1 history1	3 0 6 <1 28 1593 334 399 3412 history2 54 <1 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	300 limit/base >181 >20 limit/base	2 0 6 0 25 1538 338 396 3095 current 156 <1 0	1 0 6 0 28 1569 333 400 3400 history1 108 <1 <1 <1 0	3 0 6 <1 28 1593 334 399 3412 history2 54 <1 2 history2 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	300 limit/base >181 >20 limit/base >20	2 0 6 0 25 1538 338 396 3095 current 156 <1 0 current 0	1 0 6 0 28 1569 333 400 3400 history1 108 <1 <1 history1 0 5.2	3 0 6 <1 28 1593 334 399 3412 history2 54 <1 2 history2 0 3.8
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m Method *ASTM D7844 *ASTM D7624 *ASTM D76145	300 limit/base >181 >20 limit/base >20 >30 limit/base	2 0 6 0 25 1538 338 396 3095 current 156 <1 0 current 0 4.6 20.0	1 0 6 0 28 1569 333 400 3400 history1 108 <1 <1 <1 5.2 21.9	3 0 6 <1 28 1593 334 399 3412 history2 54 <1 2 history2 0 3.8 17.5
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm	ASTM D5185m method *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7844 *ASTM D7844 *ASTM D7844 *ASTM D7844	300 limit/base >181 >20 limit/base >20 >30 limit/base	2 0 6 0 25 1538 338 396 3095 current 156 <1 0 current 0 4.6 20.0	1 0 6 0 28 1569 333 400 3400 history1 108 <1 <1 history1 0 5.2 21.9 history1	3 0 6 <1 28 1593 334 399 3412 history2 54 <1 2 history2 0 3.8 17.5 history2



OIL ANALYSIS REPORT



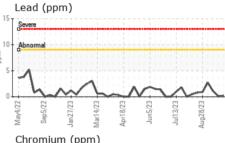


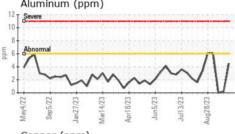


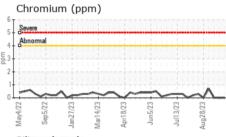
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

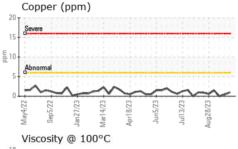
FLUID PROPER	TIES	method			riistory i	History
Visc @ 100°C	cSt	ASTM D445	13.5	13.3	13.2	13.0

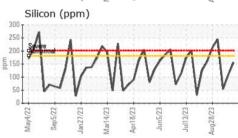
Seve	ere						
Abn	ormal						
1		A					
7	L	1_	~	1		1	1
127	(722	123) 123 123	/23	/23	1/23
May4/2	Sep5/22	Jan 27/	Mar14	Apr18/	Jun5/2	Jul13/23	Aug28/23

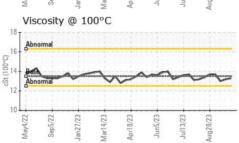


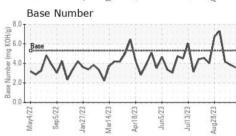
















Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : MOB 2

: 10668923

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0775337 : 05962372

Received Diagnosed Diagnostician : Sean Felton

: 27 Sep 2023 : 28 Sep 2023 **EDL NA Recips-Honeybrook**

Honey Brook Powerstation, 481 S. Churchtown Road Narvon, PA

US 17555-9574 Contact: Christian Adames

Christian.Adames@edlenergy.com T:

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: