

# **OIL ANALYSIS REPORT**

## Sample Rating Trend









## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

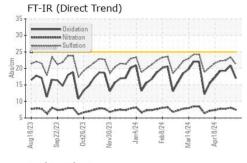
### **Fluid Condition**

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.

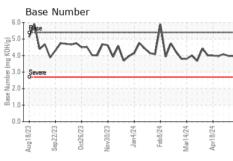
SAMPLE INFORM	NOITAI	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0865693	WC0865716	WC0865733
Sample Date		Client Info		30 May 2024	09 May 2024	02 May 2024
Machine Age	hrs	Client Info		72756	116074	72106
Oil Age	hrs	Client Info		458	116074	757
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	SEVERE	ABNORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>14	0	4	4
Chromium	ppm	ASTM D5185m	>3	0	<1	<1
Nickel	ppm	ASTM D5185m		0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	2	2	2
Lead	ppm	ASTM D5185m	>8	2	4	4
Copper	ppm	ASTM D5185m	>5	- <1	2	2
Tin	ppm	ASTM D5185m	>3	2	<u></u>	<u>4</u>
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	2	2
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		3		6
-	PP				b	
Manganese	nnm	ASTM D5185m			6	
Manganese Magnesium	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1 18	<1 26	<1 25
Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		<1 18 2034	<1 26 2262	<1 25 2097
Magnesium Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		<1 18 2034 303	<1 26 2262 394	<1 25 2097 357
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m		<1 18 2034	<1 26 2262	<1 25 2097
Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	<1 18 2034 303 378 2174	<1 26 2262 394 435 2893	<1 25 2097 357 408 2814
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	<1 18 2034 303 378 2174 current	<1 26 2262 394 435 2893 history1	<1 25 2097 357 408 2814 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	>180	<1 18 2034 303 378 2174 current 135	<1 26 2262 394 435 2893 history1	<1 25 2097 357 408 2814 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method		<1 18 2034 303 378 2174 current	<1 26 2262 394 435 2893 history1	<1 25 2097 357 408 2814 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	>180 >20	<1 18 2034 303 378 2174 current 135 0	<1 26 2262 394 435 2893 history1  1 213 0	<1 25 2097 357 408 2814 history2 ▲ 188 0
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m  method ASTM D5185m ASTM D5185m ASTM D5185m	>180 >20 >20	<1 18 2034 303 378 2174 current 135 0	<1 26 2262 394 435 2893 history1  213 0 3	<1 25 2097 357 408 2814 history2  188 0 2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm	ASTM D5185m	>180 >20 >20	<1 18 2034 303 378 2174 current 135 0 0 current	<1 26 2262 394 435 2893 history1  213 0 3 history1	<1 25 2097 357 408 2814 history2  ▲ 188 0 2 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  method  *ASTM D7844	>180 >20 >20	<1 18 2034 303 378 2174 current 135 0 0 current 0.1	<1 26 2262 394 435 2893 history1  1 213 0 3 history1 0.1	<1 25 2097 357 408 2814 history2  ▲ 188 0 2 history2 0.1
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	>180 >20 >20	<1 18 2034 303 378 2174 current 135 0 current 0.1 7.5	<1 26 2262 394 435 2893 history1  1 213 0 3 history1 0.1 8.1	<1 25 2097 357 408 2814 history2 188 0 2 history2 0.1 7.8
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm Abs/.1mm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415	>180 >20 >20   imit/base	<1 18 2034 303 378 2174 current 135 0 0 current 0.1 7.5 21.2	<1 26 2262 394 435 2893 history1  213 0 3 history1 0.1 8.1 23.4	<1 25 2097 357 408 2814 history2  ▲ 188 0 2 history2 0.1 7.8 22.4
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm ppm ppm Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m  Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415  method	>180 >20 >20   imit/base	<1 18 2034 303 378 2174 current 135 0 0 current 0.1 7.5 21.2 current	<1 26 2262 394 435 2893 history1  1 213 0 3 history1 0.1 8.1 23.4 history1	<1 25 2097 357 408 2814 history2   ▲ 188 0 2 history2   0.1 7.8 22.4 history2

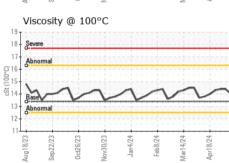


## **OIL ANALYSIS REPORT**





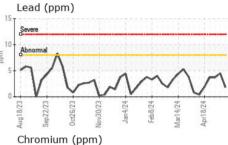




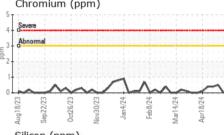
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

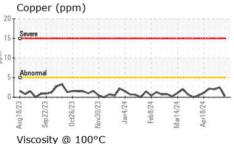
FLUID PROPER	TIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	13.4	14.0	14.4	14.4

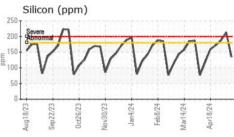
20 - Seve	ere						
15 - Abn	ormal				11111		
10-	Λ						
5	1	1-		1	~	Λ	0
0 53		53	VV E	-	7	~	4
Aug18/23	Sep22/23	0ct26/23	Nov30/23	Jan 4/24	Feb8/24	Mar14/24	Apr18/24
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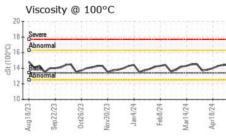


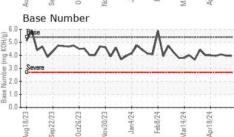
















Certificate 12367

Laboratory Sample No. Lab Number : 06197888

Test Package : MOB 2

: WC0865693 Unique Number : 11060011

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

: 03 Jun 2024 **Tested** : 04 Jun 2024 Diagnosed : 04 Jun 2024 - Don Baldridge

**EDL NA Recips-South Jordan** South Jordan Powerstation, 10473 S. Bacchus Hwy. South Jordan, UT

US 84095 Contact: Aaron Klein aaron.klein@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)

Report Id: EDLSOU [WUSCAR] 06197888 (Generated: 06/06/2024 07:11:08) Rev: 1

Submitted By: Aaron Klein

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