

## **OIL ANALYSIS REPORT**

Sample Rating Trend

### NORMAL

# Wayne unit 1

Component Landfill Biogas Engine Fluid

D-A Lubricant Blue Flame HB-8 40W (180 GAL)

#### 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.

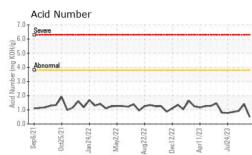
#### Fluid Condition

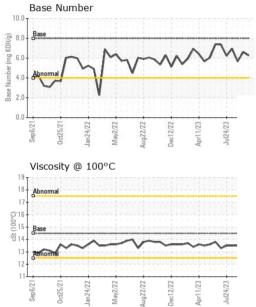
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

AL)		p1021 Ocd021 Juni022 Minjol22 Augl022 Oud022 Augl023 Jul023													
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2									
Sample Number		Client Info		WC0831453	WC0831449	WC0831447									
Sample Date		Client Info		14 Nov 2023	06 Oct 2023	08 Sep 2023									
Machine Age	hrs	Client Info		81248	80376	79726									
Dil Age	hrs	Client Info		872	2570	1920									
Dil Changed		Client Info		Not Changd	Not Changd	Not Changd									
Sample Status				NORMAL	NORMAL	NORMAL									
CONTAMINATION	J	method	limit/base	current	history1	history2									
<sup>-</sup> uel		WC Method	>4.0	<1.0	<1.0	<1.0									
Water		WC Method	>.2	NEG	NEG	NEG									
Glycol		WC Method		NEG	NEG	NEG									
WEAR METALS		method	limit/base	current	history1	history2									
ron	ppm	ASTM D5185m	>20	3	9	6									
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1									
Nickel	ppm	ASTM D5185m	>2	0	<1	0									
Fitanium	ppm	ASTM D5185m		0	0	0									
Silver	ppm	ASTM D5185m	>5	0	0	0									
Aluminum	ppm	ASTM D5185m	>15	4	0	3									
ead	ppm	ASTM D5185m	>20	0	<1	<1									
Copper	ppm	ASTM D5185m	>15	<1	2	<1									
in	ppm	ASTM D5185m	>5	<1	2	1									
/anadium	ppm	ASTM D5185m		<1	0	<1									
Cadmium	ppm	ASTM D5185m		0	0	0									
ADDITIVES		method	limit/base	current	history1	history2									
Boron	ppm	ASTM D5185m		1	2	<1									
Barium	ppm	ASTM D5185m		0	2	0									
lolybdenum	ppm	ASTM D5185m		5	6	5									
langanese	ppm	ASTM D5185m		<1	<1	<1									
/lagnesium	ppm	ASTM D5185m		15	32	32									
Calcium	ppm	ASTM D5185m		2157	2502	2553									
hosphorus	ppm	ASTM D5185m		333	382	371									
Zinc	ppm	ASTM D5185m		414	482	461									
Sulfur	ppm	ASTM D5185m		3101	4467	4285									
CONTAMINANTS		method	limit/base	current	history1	history2									
Silicon	ppm	ASTM D5185m	>200	60	164	116									
Sodium	ppm	ASTM D5185m	>20	<1	0	1									
Potassium	ppm	ASTM D5185m	>20	0	1	0									
INFRA-RED		method	limit/base	current	history1	history2									
Soot %	%	*ASTM D7844	>2	0	0	0									
Nitration	Abs/cm	*ASTM D7624	>20	6.0	6.6	6.2									
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.2	19.0	18.3									
FLUID DEGRADA	TION	method	limit/base	current	history1	history2									
Dxidation	Abs/.1mm	*ASTM D7414	>25	10.3	11.7	10.9									
Acid Number (AN)	mg KOH/g	ASTM D8045		0.50	1.41	0.91									
Base Number (BN)	mg KOH/g		8	6.26	6.61	5.66									
	J . J				Submitted By: J.										



## **OIL ANALYSIS REPORT**





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