



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**(EQ5150) W**  
Machine Id  
Component  
**Brockport Tank (S/N EEIOH706466)**  
Fluid  
**KENDALL SHP 5W40 Diesel Engine Oil (32 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0934074</b>	WC0810892	WC0696113
Sample Date		Client Info		<b>08 May 2024</b>	18 May 2023	11 May 2022
Machine Age	hrs	Client Info		<b>193</b>	173	145
Oil Age	hrs	Client Info		<b>193</b>	173	145
Filter Age	hrs	Client Info		<b>0</b>	173	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>6</b>	5	6
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>22</b>	22	22
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>1</b>	<1	1
Lead	ppm	ASTM D5185m	>40	<b>6</b>	5	5
Copper	ppm	ASTM D5185m	>330	<b>8</b>	6	7
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

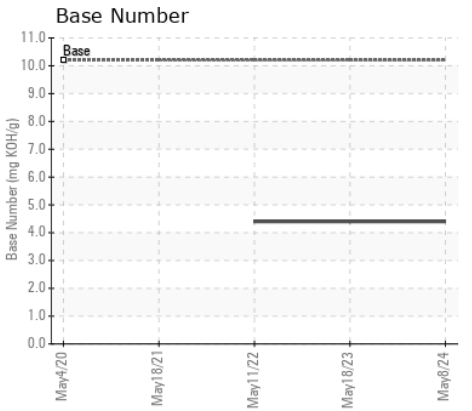
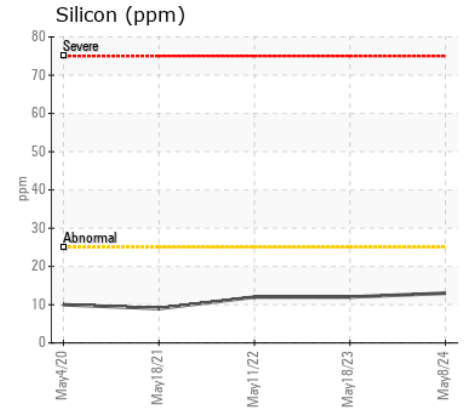
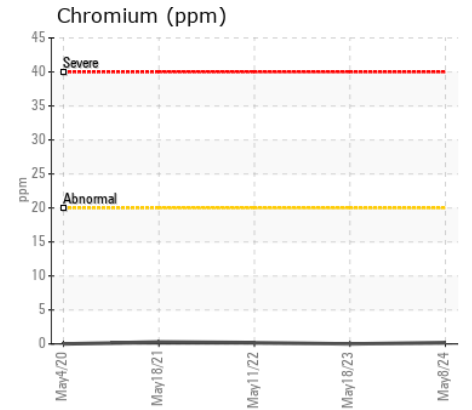
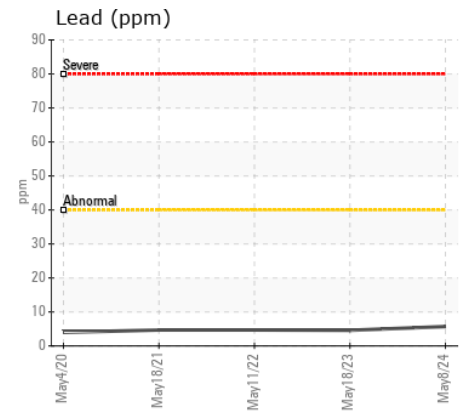
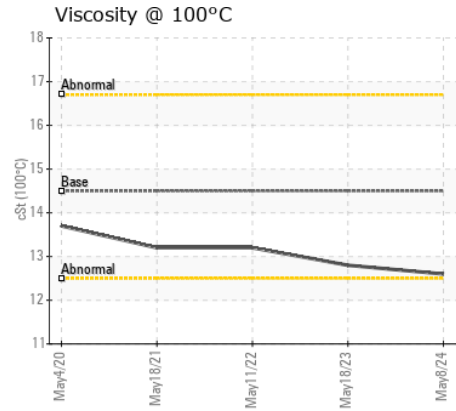
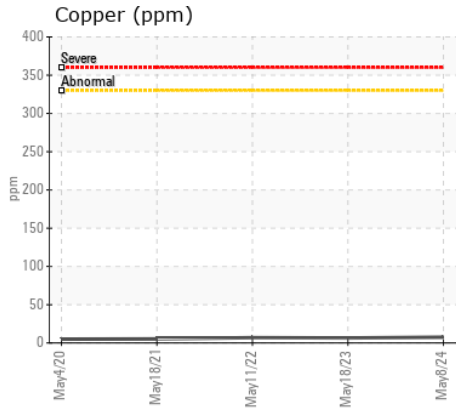
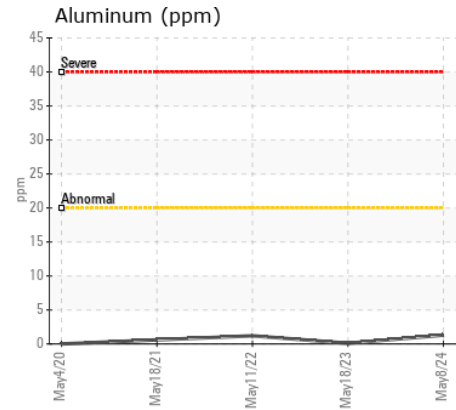
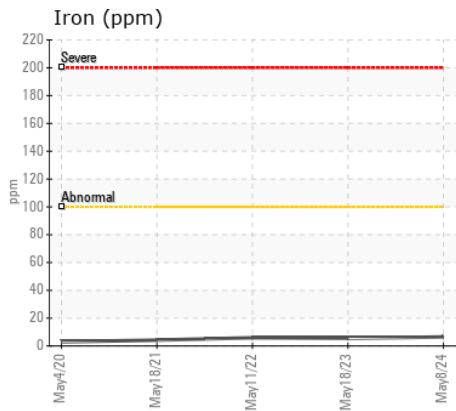
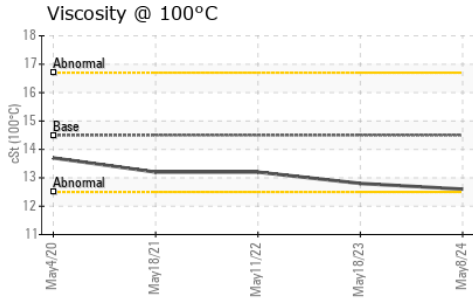
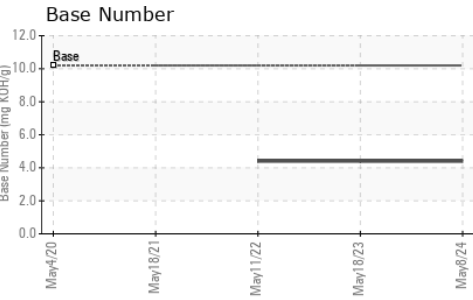
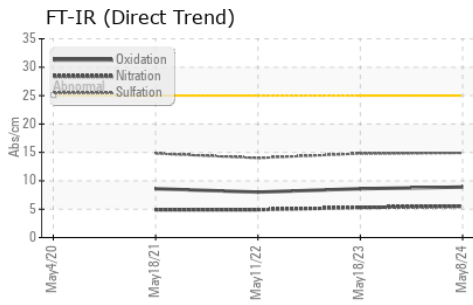
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>13</b>	12	12
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	<1
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.5</b>	5.3	4.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>14.9</b>	14.8	14.0
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	1	<1
Boron	ppm	ASTM D5185m		<b>93</b>	100	101
Barium	ppm	ASTM D5185m		<b>3</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>102</b>	97	102
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>69</b>	3	8
Calcium	ppm	ASTM D5185m		<b>1953</b>	1867	1901
Phosphorus	ppm	ASTM D5185m		<b>677</b>	645	658
Zinc	ppm	ASTM D5185m	1288	<b>816</b>	736	759
Sulfur	ppm	ASTM D5185m		<b>3204</b>	2819	2545
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>8.9</b>	8.6	8.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>4.4</b>	4.4	4.4
Visc @ 100°C	cSt	ASTM D445	14.5	<b>12.6</b>	12.8	13.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0934074  
**Lab Number** : 06176914  
**Unique Number** : 11022967  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MONROE COUNTY WATER AUTHORITY**  
 4799 DEWEY AVE  
 ROCHESTER, NY  
 US 14612

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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