WEAR CONTAMINATION FLUID CONDITION

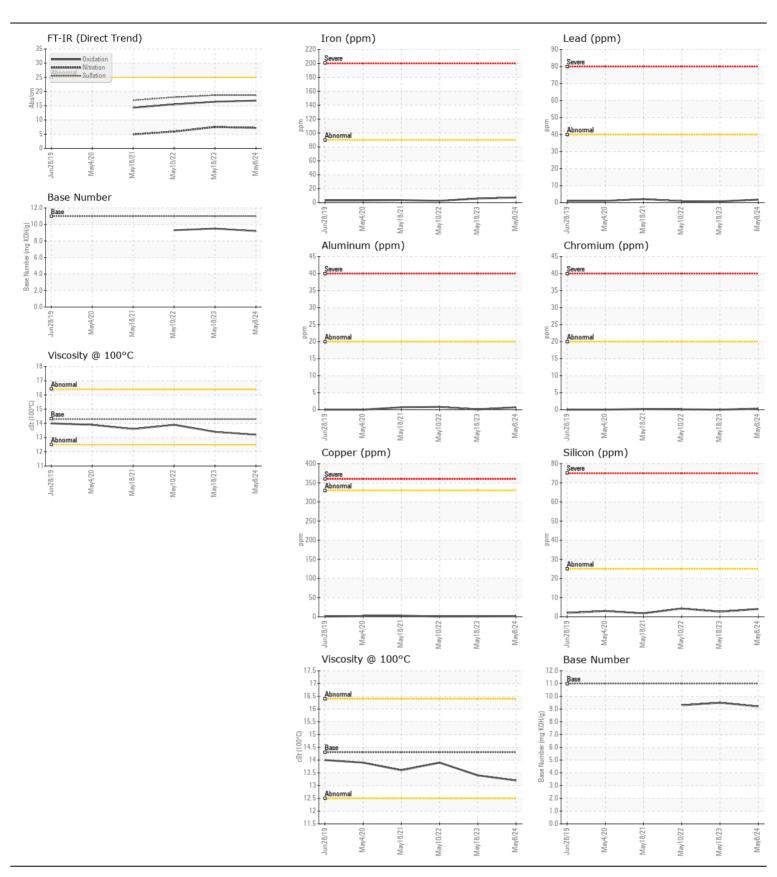
NORMAL NORMAL NORMAL

(EQ4543) N

Webster Lake Water Pump Station (S/N 73279888)

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0934059	WC0810877	WC069609
	Sample Date		Client Info		08 May 2024	18 May 2023	10 May 202
	Machine Age	hrs	Client Info		0	451	317
	Oil Age	hrs	Client Info		4474	160	317
	Filter Age	hrs	Client Info		0	160	0
	Oil Changed		Client Info		Not Changd	Not Changd	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	nnm	ASTM D5185m	~an	7	6	2
WEAR	Chromium	ppm	ASTM D5185m		، <1	0	<1
All component wear rates are normal.	Nickel		ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		1	<1	<1
	Silver		ASTM D5185m		2	<1	<1
	Aluminum	ppm	ASTM D5185m		<1	<1	<1
	Lead	ppm	ASTM D5185m		2	<1	<1
	Copper	ppm	ASTM D5185m		2	1	1
	Tin	ppm	ASTM D5185m		<1	<1	0
	Vanadium	ppm	ASTM D5185m	710	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	3	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	<1	0
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	7.5	5.9
	Sulfation	Abs/.1mm	*ASTM D7415		18.7	18.7	18.0
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	3	2
	Boron	ppm	ASTM D5185m	65	62	65	77
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	65	53	51	52
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1160	1047	1042	1074
	Calcium	ppm	ASTM D5185m	820	1053	1051	1083
	Phosphorus	ppm	ASTM D5185m	1160	1090	1052	1130
	Zinc	ppm	ASTM D5185m	1260	1336	1388	1278
	Sulfur	ppm	ASTM D5185m	3000	4236	4051	3266
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	16.4	15.5
	Base Number (BN)	mg KOH/g	ASTM D2896	11.0	9.2	9.5	9.3
		cSt	ASTM D445		13.2	13.4	13.9







Certificate L2367

Laboratory Sample No.

Lab Number : 06176876

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0934059

Unique Number : 11022929

Received **Tested** Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 13 May 2024 : 14 May 2024

: 14 May 2024 - Sean Felton

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

Contact: SCOTT TRAIL scott.trail@mcwa.com T: (585)775-5257

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)

F: