MOB

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Area
(EQ2301) N
Machine Id
Low Lift #2 (Edgemere) BPS (S/N 81Z10758)
Component
Diesel Engine
Fluid
PETRO CANADA DURON UHP 5W40 (25 GAL)

RECOMMENDATION

We advise that you check the fuel injection system. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

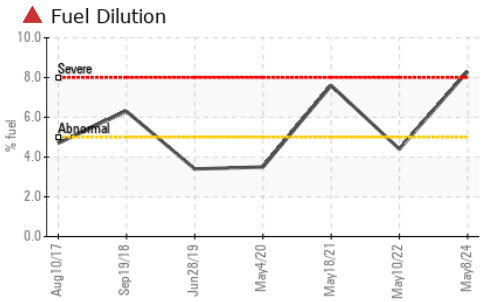
CONTAMINATION

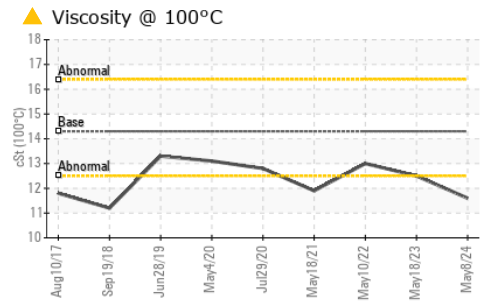
There is a high amount of fuel present in the oil.

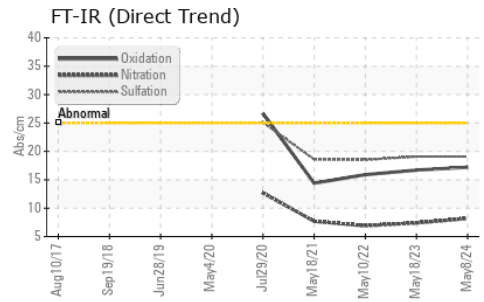
FLUID CONDITION

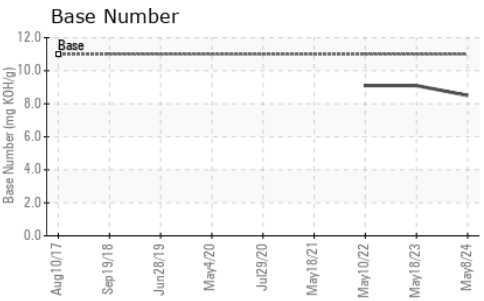
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

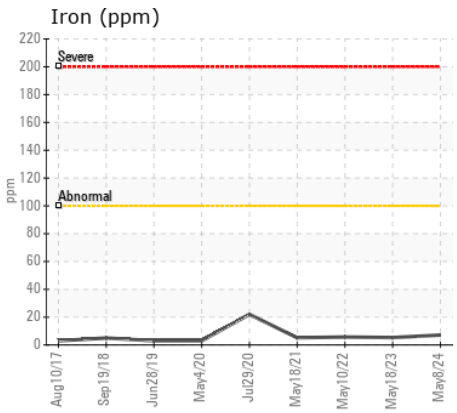
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0934058	WC0810876	WC0696097
Sample Date		Client Info		08 May 2024	18 May 2023	10 May 2022
Machine Age	hrs	Client Info		1669	1612	1582
Oil Age	hrs	Client Info		87	62	1582
Filter Age	hrs	Client Info		0	62	1
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				SEVERE	NORMAL	MARGINAL
Iron	ppm	ASTM D5185m	>100	7	5	6
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	9	10	10
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	<1
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	4	3	4
Potassium	ppm	ASTM D5185m	>20	1	2	<1
Fuel	%	ASTM D3524	>5	▲ 8.3	<1.0	▲ 4.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.4	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	19.1	18.5
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	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		4	4	4
Boron	ppm	ASTM D5185m	65	65	78	78
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	65	47	46	47
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1160	1019	1031	1041
Calcium	ppm	ASTM D5185m	820	935	985	983
Phosphorus	ppm	ASTM D5185m	1160	1020	1011	1055
Zinc	ppm	ASTM D5185m	1260	1253	1343	1199
Sulfur	ppm	ASTM D5185m	3000	3900	3883	3029
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	16.7	15.9
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	8.5	9.1	9.1
Visc @ 100°C	cSt	ASTM D445	14.3	▲ 11.6	12.5	13.0

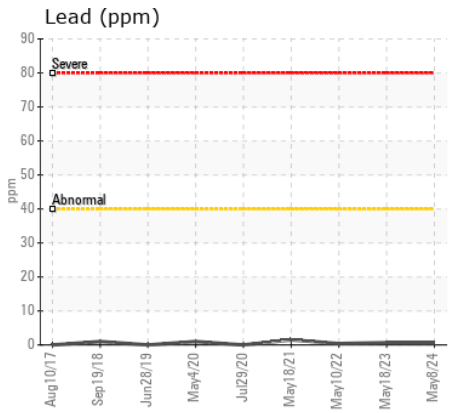


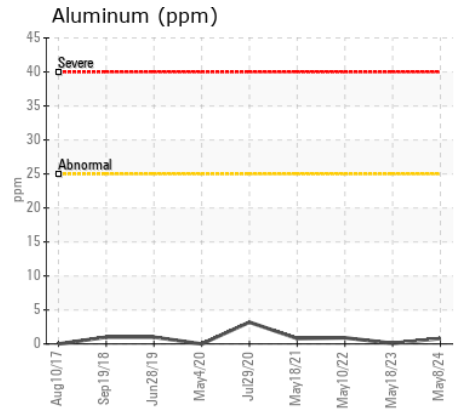


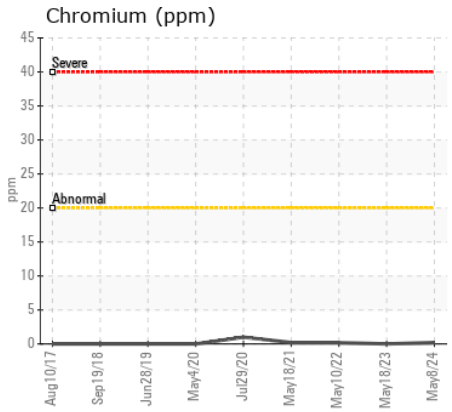


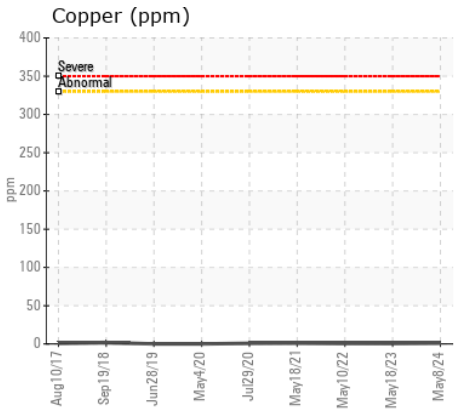


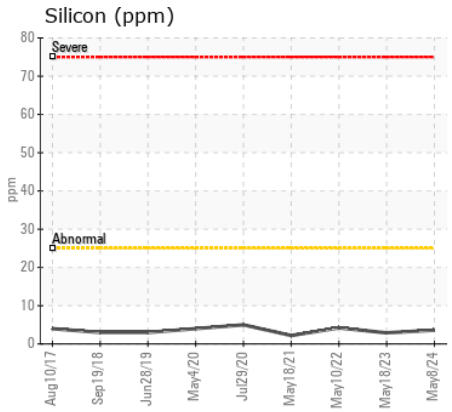


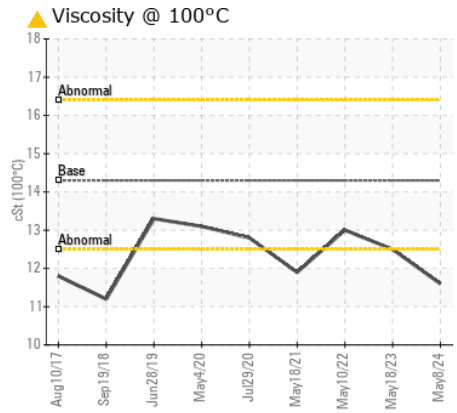


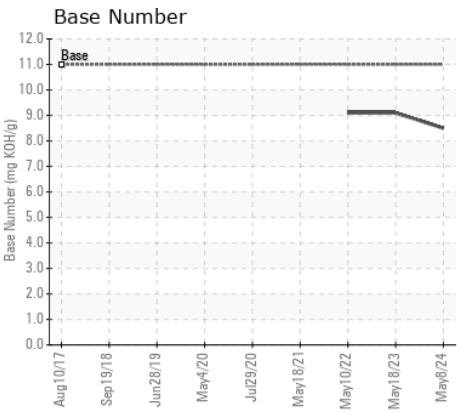












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0934058
Lab Number : 06176878
Unique Number : 11022931
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

Received : 13 May 2024
Tested : 17 May 2024
Diagnosed : 17 May 2024 - Jonathan Hester

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)

MONROE COUNTY WATER AUTHORITY
4799 DEWEY AVE
ROCHESTER, NY
US 14612
Contact: SCOTT TRAIL
scott.trail@mcwa.com
T: (585)775-5257
F: