



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
BECKY ANN
Component
Port Genset
Fluid
PETRO CANADA DURON MARINE SAE 40 (4 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0035997	MW0036025	MWM729650
Sample Date		Client Info		15 May 2024	06 Dec 2023	12 May 2020
Machine Age	hrs	Client Info		1133	586	77681
Oil Age	hrs	Client Info		547	586	571
Filter Age	hrs	Client Info		547	586	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	13	15	10
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>5	<1	0	0
Aluminum	ppm	ASTM D5185m	>12	1	1	1
Lead	ppm	ASTM D5185m	>17	4	<1	0
Copper	ppm	ASTM D5185m	>70	<1	3	1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

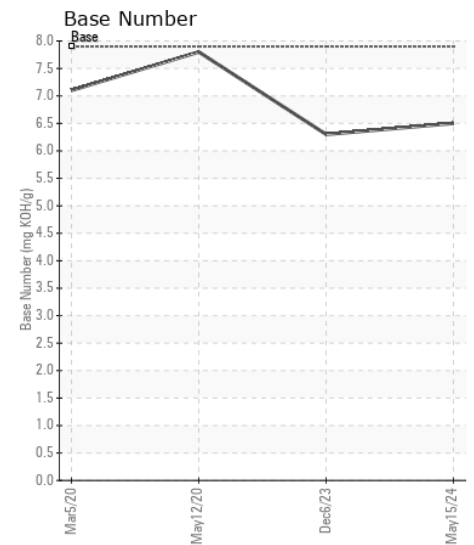
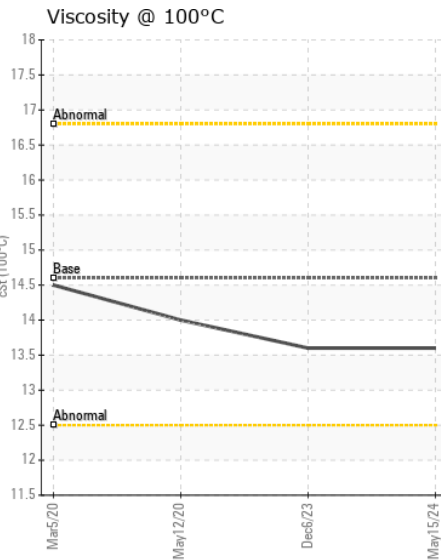
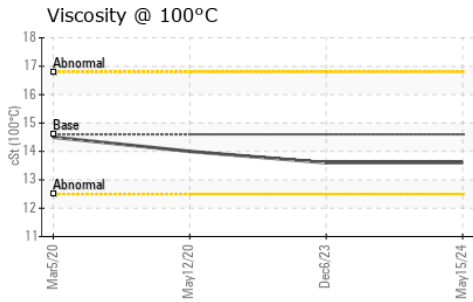
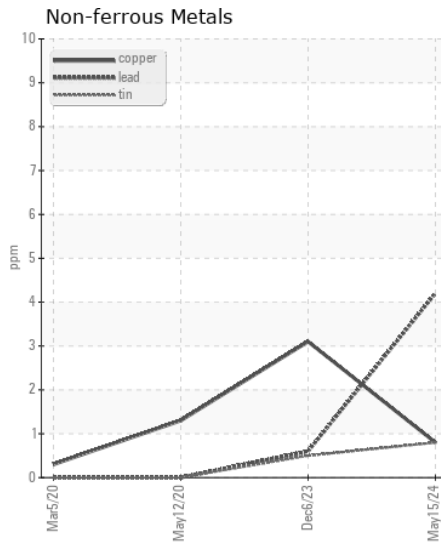
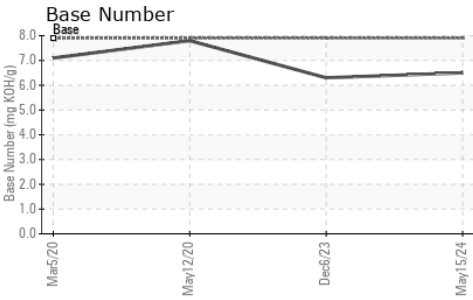
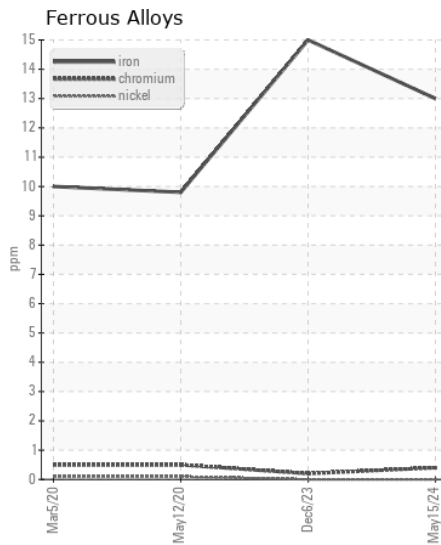
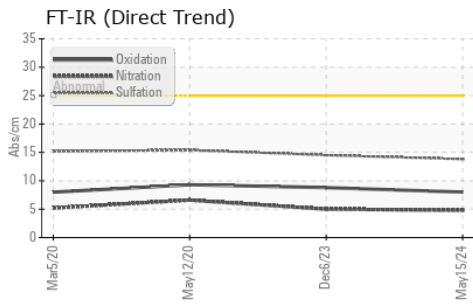
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	4	4	3
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0.7
Nitration	Abs/cm	*ASTM D7624	>20	4.8	5.0	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	13.8	14.5	15.4
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	>0.1	NEG	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		1	1	1
Boron	ppm	ASTM D5185m	1.0	12	19	28
Barium	ppm	ASTM D5185m	1.0	0	0	0
Molybdenum	ppm	ASTM D5185m	1.0	6	18	8
Manganese	ppm	ASTM D5185m	1	<1	2	<1
Magnesium	ppm	ASTM D5185m	15	942	901	812
Calcium	ppm	ASTM D5185m	2540	1232	1025	1141
Phosphorus	ppm	ASTM D5185m	1000	1195	993	986
Zinc	ppm	ASTM D5185m	1110	1371	1275	1124
Sulfur	ppm	ASTM D5185m	3700	3777	2799	2225
Oxidation	Abs/.1mm	*ASTM D7414	>25	8.0	8.8	9.3
Base Number (BN)	mg KOH/g	ASTM D2896	7.9	6.5	6.3	7.8
Visc @ 100°C	cSt	ASTM D445	14.6	13.6	13.6	14.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0035997 **Received** : 30 May 2024
Lab Number : 06195037 **Tested** : 31 May 2024
Unique Number : 11057160 **Diagnosed** : 31 May 2024 - Wes Davis
Test Package : MAR 2

AMERICAN RIVER TRANSPORTATION
 1495 EAST ILLINOIS RT 71
 OTTAWA, IL
 US 61350
 Contact: Jackson Hayes
 jackson.hayes@adm.com
 T:

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: (815)434-5571