



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
GLADYS WHITE
Component
Port Genset
Fluid
PETRO CANADA DURON MARINE SAE 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0066820	MW0036038	MW0036090
Sample Date		Client Info		05 Feb 2024	13 Nov 2023	08 May 2023
Machine Age	hrs	Client Info		4375	4174	3427
Oil Age	hrs	Client Info		201	747	445
Filter Age	hrs	Client Info		201	747	445
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	13
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>12	2	4	3
Lead	ppm	ASTM D5185m	>17	5	0	0
Copper	ppm	ASTM D5185m	>70	3	3	<1
Tin	ppm	ASTM D5185m	>15	2	<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

CONTAMINATION

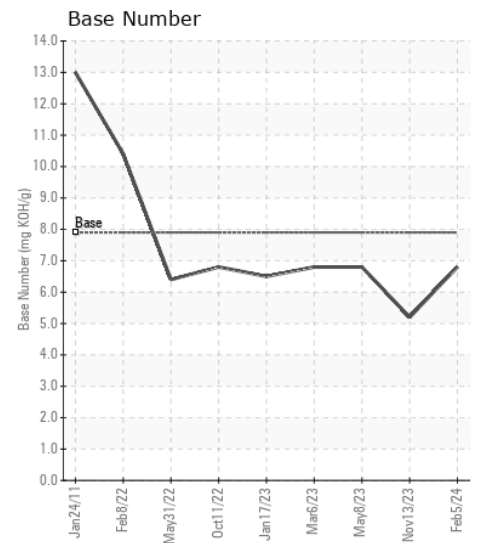
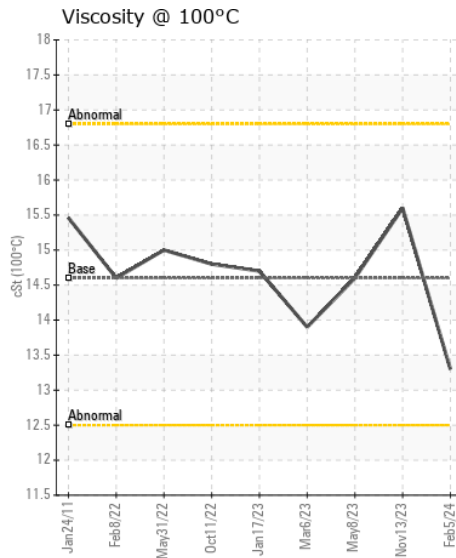
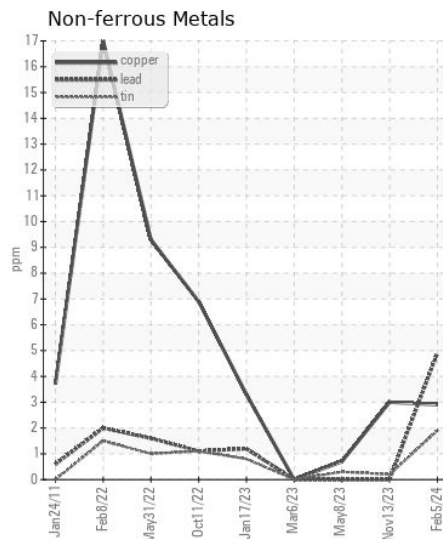
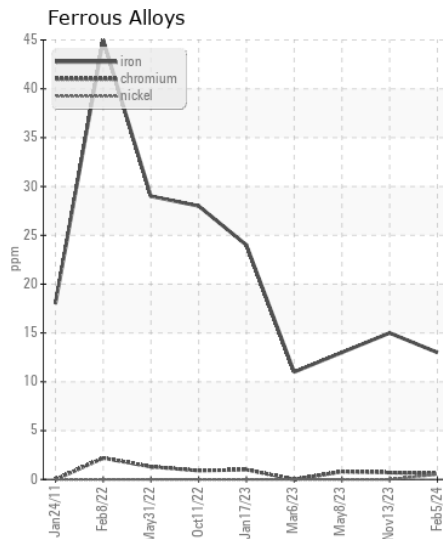
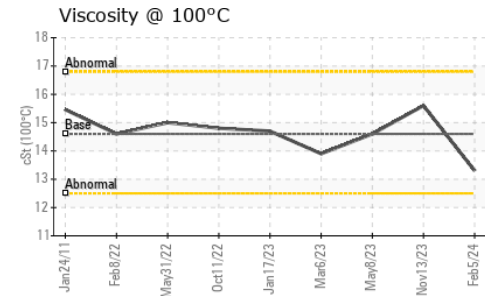
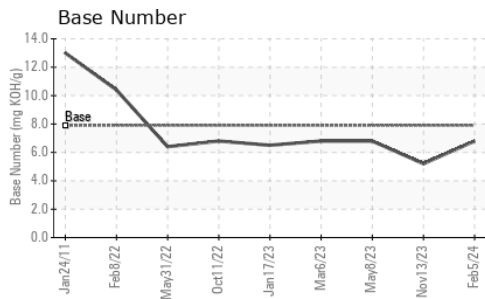
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	5	4
Potassium	ppm	ASTM D5185m	>20	1	0	0
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		0.6	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.5	11.6	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.9	22.0	17.7
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		0	5	3
Boron	ppm	ASTM D5185m	1.0	9	0	<1
Barium	ppm	ASTM D5185m	1.0	13	0	0
Molybdenum	ppm	ASTM D5185m	1.0	4	0	2
Manganese	ppm	ASTM D5185m	1	1	1	<1
Magnesium	ppm	ASTM D5185m	15	851	983	974
Calcium	ppm	ASTM D5185m	2540	1127	1094	1067
Phosphorus	ppm	ASTM D5185m	1000	1120	1120	1060
Zinc	ppm	ASTM D5185m	1110	1279	1430	1388
Sulfur	ppm	ASTM D5185m	3700	3555	2699	3322
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.7	24.8	14.8
Base Number (BN)	mg KOH/g	ASTM D2896	7.9	6.8	5.2	6.8
Visc @ 100°C	cSt	ASTM D445	14.6	13.3	15.6	14.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : MW0066820
 Lab Number : 06085747
 Unique Number : 10873192
 Test Package : MAR 2

Received : 12 Feb 2024
 Tested : 12 Feb 2024
 Diagnosed : 12 Feb 2024 - Wes Davis

AMERICAN RIVER TRANSPORTATION
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 OTTAWA, IL
 US 61350
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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)