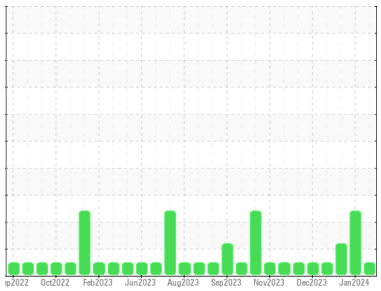
OIL DIAGNOSTICS

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
LONGHORN C
Machine Id
LONGHORN C (S/N 1645612)
Component
Natural Gas Engine
Fluid
PETRO CANADA SENTRON LD 3000 (190 GAL)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for diagnostic comment updates regarding serviceability. (Customer Sample Comment: Top Up Amount: 10 GAL)

Wear
All component wear rates are normal.

Contamination
Fuel content negligible. There is no indication of any contamination in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0096590**	PCA0096589	PCA0096595
Sample Date		Client Info		**05 Feb 2024**	17 Jan 2024	09 Jan 2024
Machine Age	hrs	Client Info		**8261**	7812	7633
Oil Age	hrs	Client Info		**2418**	1969	1790
Oil Changed		Client Info		**Oil Added**	Oil Added	Oil Added
Sample Status				**NORMAL**	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**8**	5	4
Chromium	ppm	ASTM D5185m	>4	**0**	<1	0
Nickel	ppm	ASTM D5185m	>2	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>9	**<1**	1	1
Lead	ppm	ASTM D5185m	>30	**<1**	0	<1
Copper	ppm	ASTM D5185m	>35	**<1**	<1	<1
Tin	ppm	ASTM D5185m	>4	**<1**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	**0**	0	0
Barium	ppm	ASTM D5185m	1	**0**	0	0
Molybdenum	ppm	ASTM D5185m	2	**<1**	0	0
Manganese	ppm	ASTM D5185m	1	**0**	0	<1
Magnesium	ppm	ASTM D5185m	5	**5**	20	7
Calcium	ppm	ASTM D5185m	1220	**1297**	1186	1292
Phosphorus	ppm	ASTM D5185m	298	**289**	286	304
Zinc	ppm	ASTM D5185m	350	**361**	350	358
Sulfur	ppm	ASTM D5185m	1995	**2033**	1992	2114

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	**7**	2	4
Sodium	ppm	ASTM D5185m		**2**	2	1
Potassium	ppm	ASTM D5185m	>20	**0**	0	0
Fuel	%	ASTM D3524	>4.0	**0.4**	0.4	0.3

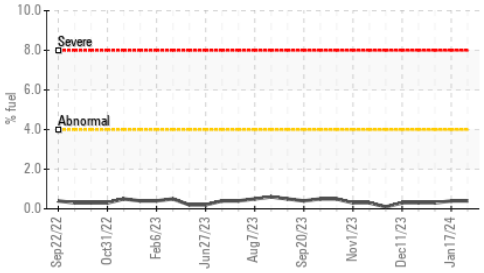
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0**	0	0
Nitration	Abs/cm	*ASTM D7624	>20	**12.0**	11.0	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	**20.7**	19.6	19.5

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**20.9**	18.4	18.2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	**2.75**	▲ 2.20	▲ 2.18
Base Number (BN)	mg KOH/g	ASTM D2896	3.9	**1.73**	▲ 0.9	2.38

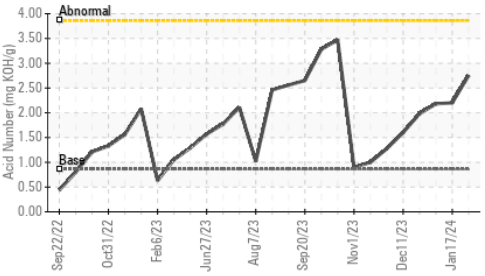
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

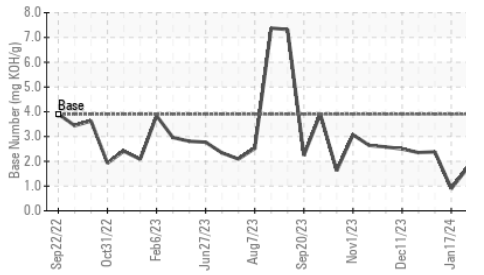
Fuel Dilution



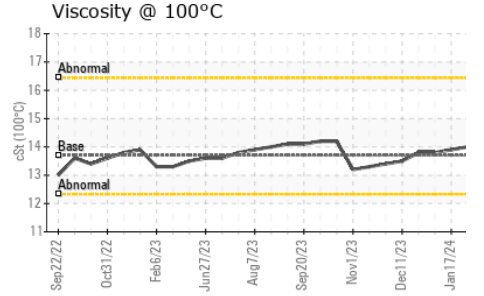
Acid Number



Base Number



Viscosity @ 100°C

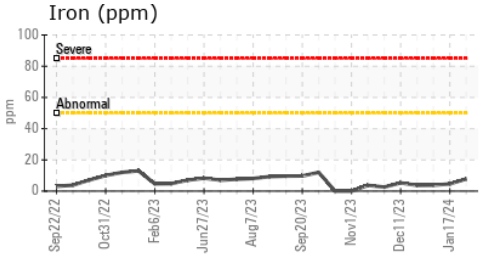


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

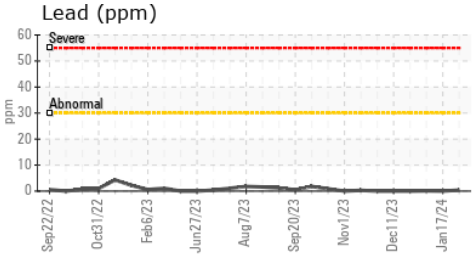
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.7	**14.0**	13.9	13.8

GRAPHS

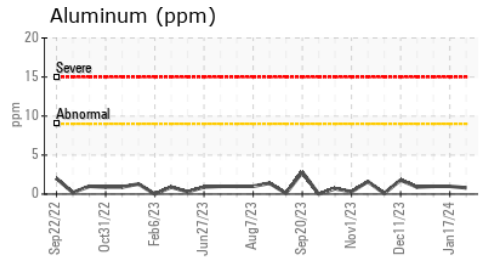
Iron (ppm)



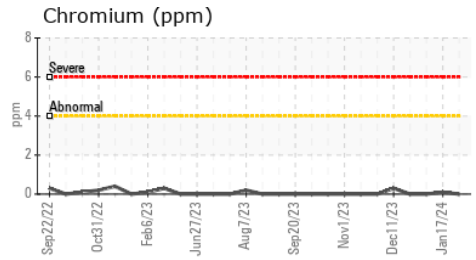
Lead (ppm)



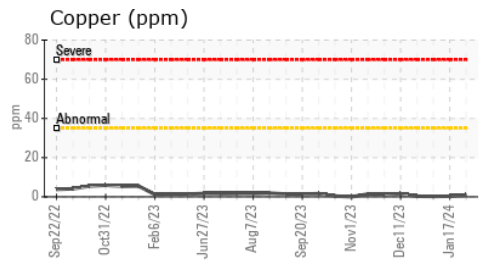
Aluminum (ppm)



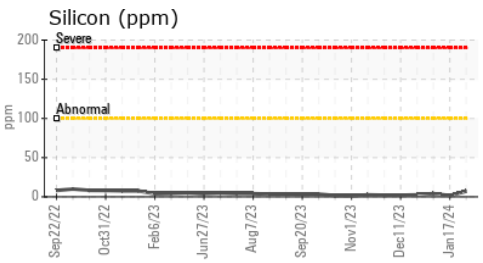
Chromium (ppm)



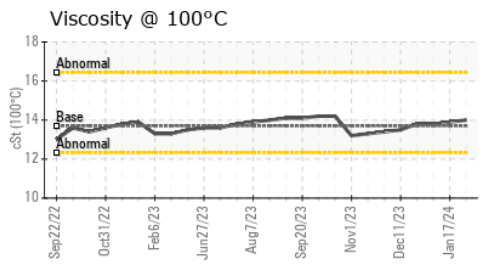
Copper (ppm)



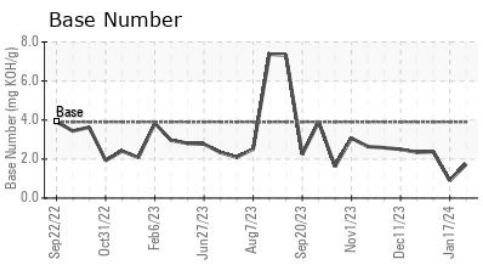
Silicon (ppm)



Viscosity @ 100°C



Base Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0096590 **Received** : 07 Feb 2024
Lab Number : 06083124 **Tested** : 08 Feb 2024
Unique Number : 10870569 **Diagnosed** : 23 Feb 2024 - Doug Bogart
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

Certificate L2367

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)

DIVERSIFIED ENERGY - CURWENSVILLE
325 WALNUT ST FL2
CURWENSVILLE, PA
US 16833
Contact: ZACH MCGARY
zmcgary@dgoc.com
T:
F:

Report Id: DIVCUR [WUSCAR] 06083124 (Generated: 02/27/2024 15:01:40) Rev: 2

Submitted By: ZACH MCGARY