

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area (19C418) 422021-402156

Component **Diesel Engine** Fluid

PETRO CANAD

SAMPLE INFO	RMATION	method				history2
Sample Number		Client Info		GFL0093575	GFL0093559	GFL009354
Sample Date		Client Info		01 Feb 2024	02 Jan 2024	15 Nov 202
Machine Age	hrs	Client Info		6865	6781	6725
Oil Age	hrs	Client Info		140	56	370
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	SEVERE
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	2.2	▲ 5.2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history
Iron	ppm	ASTM D5185m	>120	11	6	21
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	2	<1
Lead	ppm	ASTM D5185m	>40	2	<1	2
Copper	ppm	ASTM D5185m	>330	1	<1	3
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history
Boron	ppm	ASTM D5185m	0	1	3	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	55	56
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	958	921	894
Calcium	ppm	ASTM D5185m	1070	973	971	1045
Phosphorus	ppm	ASTM D5185m	1150	926	1058	945
Zinc	ppm	ASTM D5185m	1270	1211	1241	1157
Sulfur	ppm	ASTM D5185m	2060	3001	3139	2759
CONTAMINA	NTS	method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185m	>25	5	4	3
Sodium	ppm	ASTM D5185m		0	2	2
Potassium	ppm	ASTM D5185m	>20	2	2	0
INFRA-RED		method	limit/base	current	history1	history
Soot %	%	*ASTM D7844	>4	2	1.2	6.1
Nitration	Abs/cm	*ASTM D7624	>20	6.2	5.1	13.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	19.0	31.7
FLUID DEGRA	ADATION	method	limit/base	current	history1	history
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	12.4	21.4

8.9

Base Number (BN) mg KOH/g ASTM D2896 9.8

DIAGNOSIS

Recommendation

Resample at the next service interval to monito

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

▲ 0.0

8.9



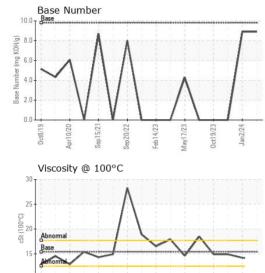
Oct8/19

Apr10/20

Sep 15/21

Sen 20/22

OIL ANALYSIS REPORT



Feb14/23

Jan2/24

10

Laboratory

Sample No.

Lab Number

Unique Number

0ct8/19 Apr10/20

: GFL0093575

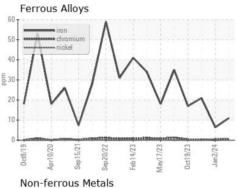
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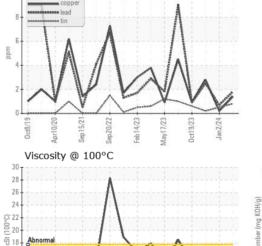
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0ct19/23

May17/23

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	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.2	14.9
GRAPHS						





Feb 14/23 May17/23

Recieved

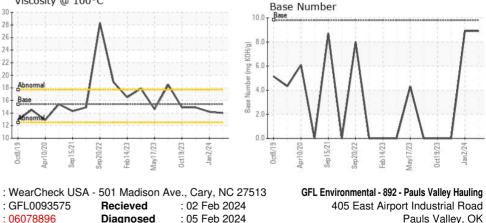
Diagnosed

Diagnostician

Jan2/24

: Wes Davis

0ct19/23



Pauls Valley, OK US 73075 Contact: Tony Graham tgraham2@wcamerica.com T: F:



Sep15/21

Sep20/22

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)