

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

928075-205272

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- 0

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

🔺 Wear

Cylinder, crank, or cam shaft wear is indicated. All other 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 acceptable for the time in service.

AL)		Jan2019	Jul2019 Apr2020	Dec2022 Jan2023	Jan2024	
SAMPLE INFOR		method	limit/base	current	history1	history2
Sample Number	_	Client Info		GFL0099272 19 Jan 2024	GFL0080052	GFL0069437
Sample Date Machine Age	hrs	Client Info Client Info		19 Jan 2024	04 Oct 2023 12234	11 Jan 2023 11951
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1110	Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	106	88	46
Chromium	ppm	ASTM D5185m	>20	3	3	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	45	6
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m		<1	17	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	5	<1
Barium	ppm	ASTM D5185m		0	12	0
Molybdenum	ppm	ASTM D5185m ASTM D5185m	60	49	35 3	61 <1
Manganese	ppm	ASTM D5185m	1010	1 978	920	903
Magnesium Calcium	ppm ppm	ASTM D5185m	1070	978	1298	1128
Phosphorus		ASTM D5185m	1150	983	908	1013
Zinc	ppm ppm	ASTM D5185m		1161	1128	1247
Sulfur	ppm	ASTM D5185m		2853	2820	2812
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	12	16
Sodium	ppm	ASTM D5185m		2	4	3
Potassium	ppm	ASTM D5185m	>20	2	98	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	1.1	1.7
Nitration	Abs/cm	*ASTM D7624	>20	5.5	13.6	11.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	28.6	22.8
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	25.5	17.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.9	4.3	7.0



🔺 Ferrous Allovs

120

100

80

40

10.0

6.0

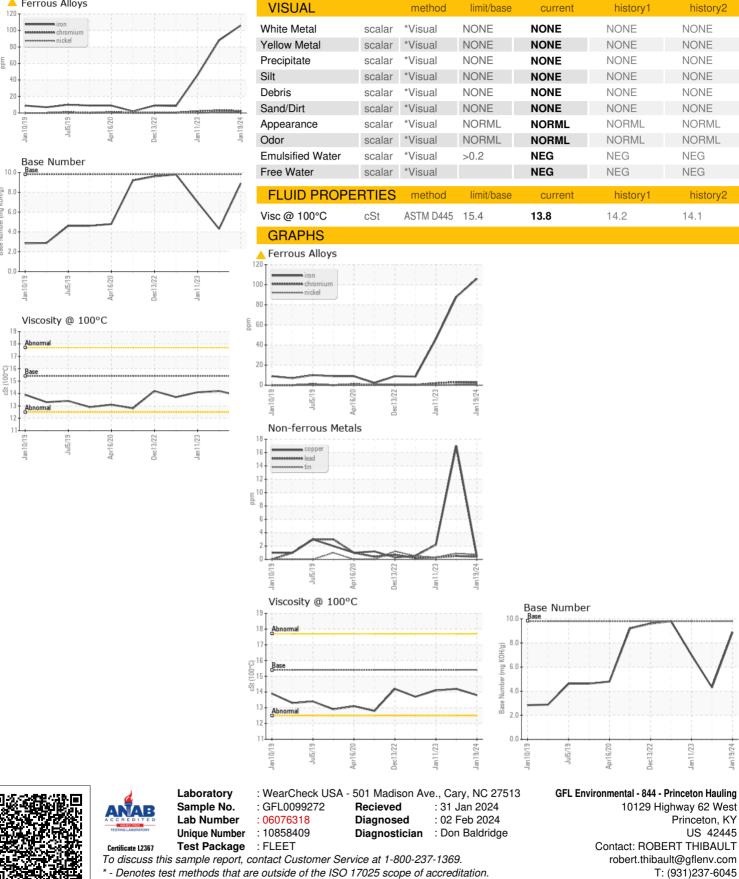
(mg KOH/g)

mbe

Base 2

bpm 60

OIL ANALYSIS REPORT



* - 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)

Submitted By: ROBERT THIBAULT

US 42445

Jan 11/23

Jan 19/24

F:

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history2

NEG

NEG

14.1