

OIL ANALYSIS REPORT

Sample Rating Trend





Component Diesel Engine Fluid PETRO CANADA DURON SHR 15W/40 (

PETRO CANADA DURON SHP 15W40 (--- GAL)

	SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		GFL0109991	GFL0104279	GFL0084966
l to monitor.	Sample Date		Client Info		15 Jan 2024	27 Dec 2023	28 Sep 2023
	Machine Age	hrs	Client Info		14579	14500	13845
d.	Oil Age	hrs	Client Info		600	14440	60
	Oil Changed		Client Info		Changed	N/A	N/A
ination in the	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINATI	ON	method	limit/base	current	history1	history2
suitable	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
ndition of the	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	WEAR METALS	5	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>200	16	20	3
	Chromium	ppm	ASTM D5185m	>20	1	<1	0
	Nickel	ppm	ASTM D5185m	>2	0	0	<1
	Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>30	4	5	2
	Lead	ppm	ASTM D5185m	>30	0	0	1
	Copper	ppm	ASTM D5185m	>30	7	1	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	<1	5	4
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	61	58	54
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	1031	940	883
	Calcium	ppm	ASTM D5185m	1070	1069	1093	985
	Phosphorus	ppm	ASTM D5185m	1150	1073	1039	976
	Zinc	ppm	ASTM D5185m	1270	1326	1245	1175
	Sulfur	ppm	ASTM D5185m	2060	2831	3216	2937
	CONTAMINAN	TS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>30	6	11	5
	Sodium	ppm	ASTM D5185m		2	5	2
	Potassium	ppm	ASTM D5185m	>20	3	2	2
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.7	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.5	5.3	5.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	17.5	17.5

FLUID DEGRADATION method

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

Abs/.1mm *ASTM D7414 >25

16.7

7.2

Oxidation

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

Machine Id 1128M

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.

13.6

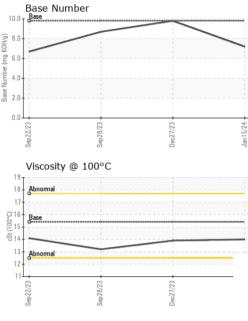
8.7

13.1

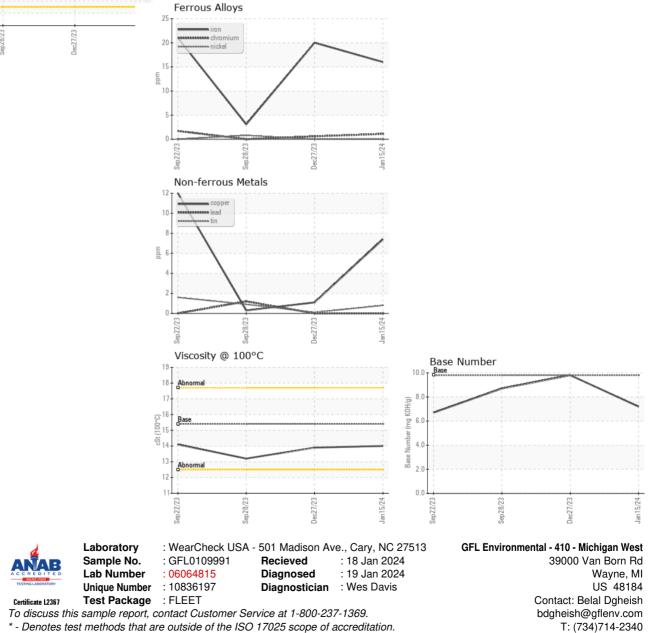
9.8



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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	13.9	13.2
GRAPHS						



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