

OIL ANALYSIS REPORT

Sample Rating Trend





Component **Diesel Engine**

Fluid PETRO CANADA DURON SHP 15W40 (5 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

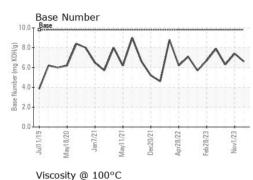
Fluid Condition

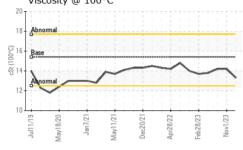
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)						
	ΜΛΤΙΟΝ	uizoiis Maya	limit/base	Dee2021 Apr2022 Feb2023 Current	Nov2023 history1	history2
	WATON		iiiiii/base			
Sample Number		Client Info Client Info		GFL0098148 07 Feb 2024	GFL0098091 01 Nov 2023	GFL0088548
Sample Date Machine Age	hrs	Client Info		1815	1815	22 Aug 2023 1815
Oil Age	hrs	Client Info		545	350	580
Oil Changed	1113	Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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
Iron	ppm	ASTM D5185m	>100	21	15	19
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	2	3
_ead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	0	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	5	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	66	66
Vanganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	929	975	1003
Calcium	ppm	ASTM D5185m	1070	980	1206	1129
Phosphorus	ppm	ASTM D5185m	1150	1042	986	1075
Zinc	ppm	ASTM D5185m	1270	1254	1309	1324
Sulfur	ppm	ASTM D5185m	2060	2737	3439	3350
CONTAMINAN	ITS	method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	6
Sodium	ppm	ASTM D5185m	00	1	0	<1
Potassium	ppm	ASTM D5185m	>20	8	9	11
INFRA-RED	<u>0</u> ′	method	limit/base		history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	11.0	10.6	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	20.7	22.1
FLUID DEGRAI			limit/base		history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.7	20.2	22.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.6	7.4	6.3

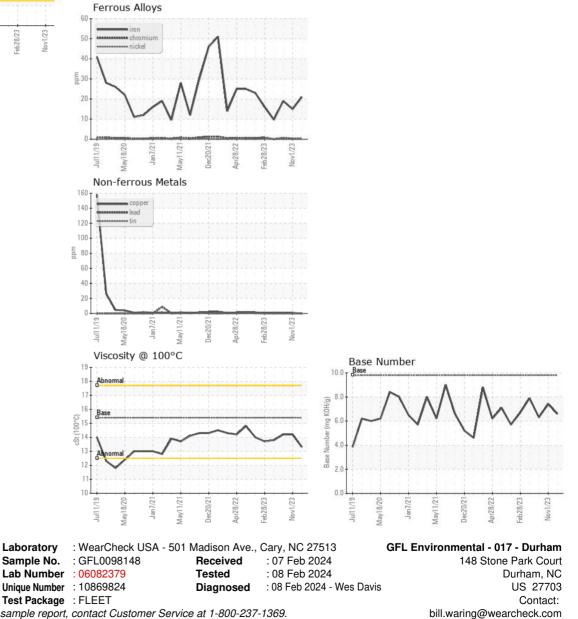


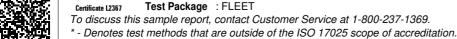
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.3	14.2	14.2
GRAPHS						





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

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