

OIL ANALYSIS REPORT

Sample Rating Trend





Component

Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- LT

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.

TR)		Jui2020	Dec2020 Mar2022	Feb2023 May2023 Sep2023	Dec2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	hrs hrs	Client Info Client Info Client Info Client Info Client Info		GFL0101297 27 Dec 2023 17929 0 Not Changd NORMAL	GFL0091824 04 Oct 2023 17437 0 Changed NORMAL	GFL0091808 29 Sep 2023 17404 0 Not Changd NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel Water Glycol		WC Method WC Method WC Method		<1.0 NEG NEG	<1.0 NEG NEG	<1.0 NEG NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron Chromium Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>110 >4 >2 >2 >25 >45 >45 >4 0 0 0 0 0 60 0 0 1010 1070 1150 1270	17 1 0 <1 0 2 <1 <1 <1 0 0 0 Current 3 0 61 <1 1003 1109 1004 1375	12 <1 0 0 0 <1 <1 <1 <1 0 0 0 history1 2 0 62 <1 939 1013 1043 1247	8 <1 0 0 1 1 1 <1 <1 <1 0 0 0 history2 4 0 60 60 <1 998 1060 1065 1321
Sulfur	ppm	ASTM D5185m		3110	3376	3209
CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >30 >20	current 9 4 2	history1 9 3 2	history2 7 4 1
INFRA-RED		method	limit/base	current	history1	history2
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>3 >20 >30	0.4 8.7 19.6	0.3 7.9 19.0	0.3 7.0 18.6
FLUID DEGRA		*ASTM D7414	limit/base	current	history1 15.1	history2 14.7
Base Number (BN)	Abs/.1mm mg KOH/g	ASTM D2896	>25 9.8	7.9	7.4	8.1



Abnorma

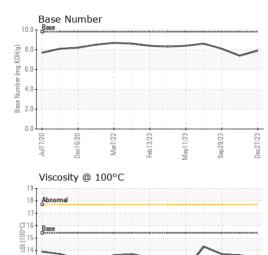
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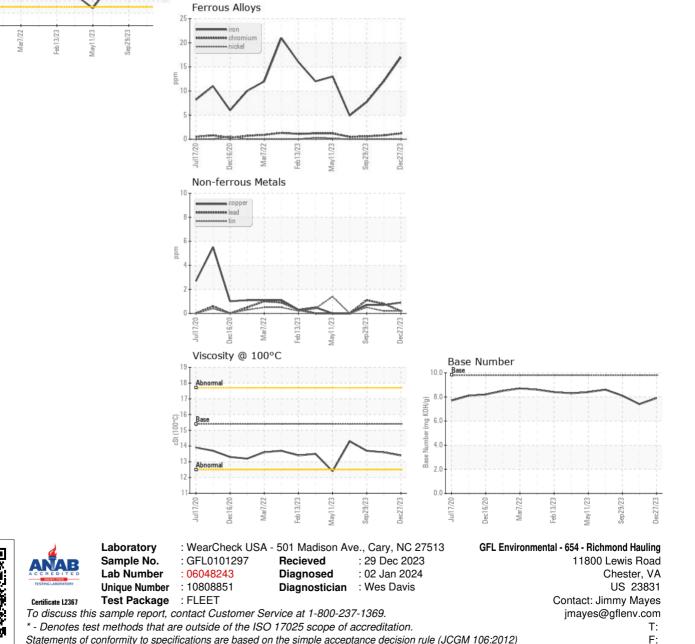
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.4	13.6	13.7
GRAPHS						



Submitted By: TECHNICIAN ACCOUNT