

OIL ANALYSIS REPORT

Area (DB63719) Machine Id 87276M Component

Diesel Engine

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

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

Fluid Condition

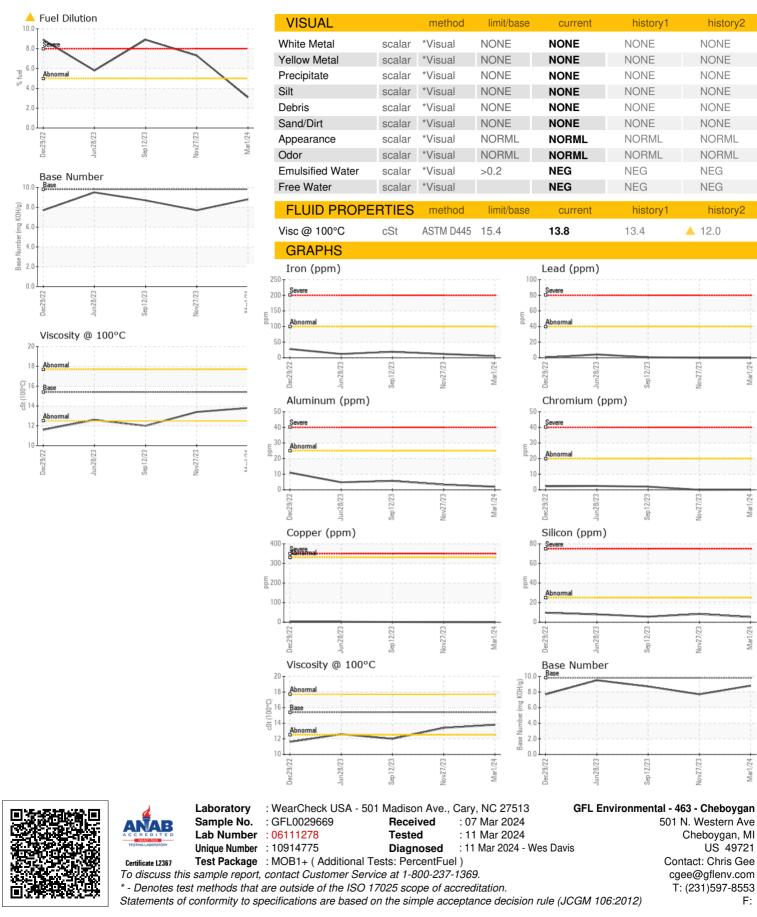
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



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Sample Number		Client Info		GFL0029669	GFL0092968	GFL0092932
Sample Date		Client Info		01 Mar 2024	27 Nov 2023	12 Sep 2023
Machine Age	mls	Client Info		284135	277001	277001
Oil Age	mls	Client Info		277001	277001	274690
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				MARGINAL	ABNORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
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	6	12	19
Chromium	ppm	ASTM D5185m	>20	<1	0	2
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	3	6
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	1
Tin	ppm	ASTM D5185m	>15	0	0	1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	10	145	<1
Barium	ppm	ASTM D5185m	0	0	0	44
Molybdenum	ppm	ASTM D5185m	60	54	10	53
Manganese	ppm	ASTM D5185m	0	0	0	1
Magnesium	ppm	ASTM D5185m	1010	882	219	819
Calcium	ppm	ASTM D5185m	1070	1140	1849	879
Phosphorus	ppm	ASTM D5185m	1150	1009	905	867
Zinc	ppm	ASTM D5185m	1270	1171	1142	1066
Sulfur	ppm	ASTM D5185m	2060	3147	3211	3030
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	8	6
Sodium	ppm	ASTM D5185m		2	3	3
Potassium	ppm	ASTM D5185m	>20	0	0	3
Fuel	%	ASTM D3524	>5	A 3.1	▲ 7.3	▲ 8.9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.2
Nitration	Abs/cm	*ASTM D7624		5.5	9.7	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	20.7	17.5
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	18.5	16.1
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Base Number (BN)	mg KOH/g	ASTM D2896		8.8	7.7	8.7



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