

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 526066 Component Diesel Engine Fluid

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

DIAGNOSIS
Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. 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.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0085267	GFL0085278	
Sample Date		Client Info		20 Nov 2023	02 Oct 2023	
Machine Age	hrs	Client Info		22891	0	
Oil Age	hrs	Client Info		400	600	
Oil Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	22	8	
Chromium	ppm	ASTM D5185m	>5	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>30	7	3	
Lead	ppm	ASTM D5185m	>30	0	0	
Copper	ppm	ASTM D5185m	>150	<1	1	
Tin	ppm	ASTM D5185m	>5	0	<1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	18	37	
Barium	ppm	ASTM D5185m	0	0	12	
Molybdenum	ppm	ASTM D5185m	60	43	45	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	811	764	
Calcium	ppm	ASTM D5185m	1070	1321	1291	
Phosphorus	ppm	ASTM D5185m	1150	935	877	
Zinc	ppm	ASTM D5185m	1270	1120	1067	
Sulfur	ppm	ASTM D5185m	2060	2753	2777	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	7	4	
Sodium	ppm	ASTM D5185m		1	2	
Potassium	ppm	ASTM D5185m	>20	0	4	
Fuel	%	ASTM D3524	>5	0.2	<1.0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	8.9	6.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	20.0	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0	16.2	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	8.5	

Page 1 of 2



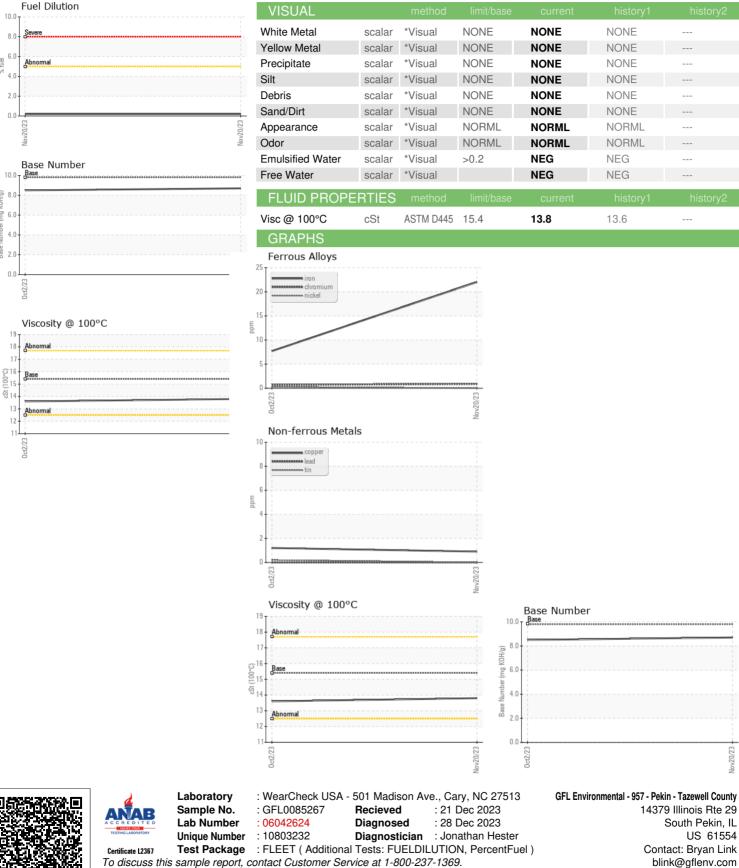
% fuel

(mg KOH/g)

mbe

Base

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* - 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)

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