

# **OIL ANALYSIS REPORT**

Sample Rating Trend





# Component

Diesel Engine Fluid

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

# DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

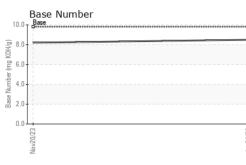
#### Fluid Condition

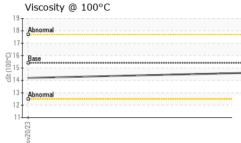
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

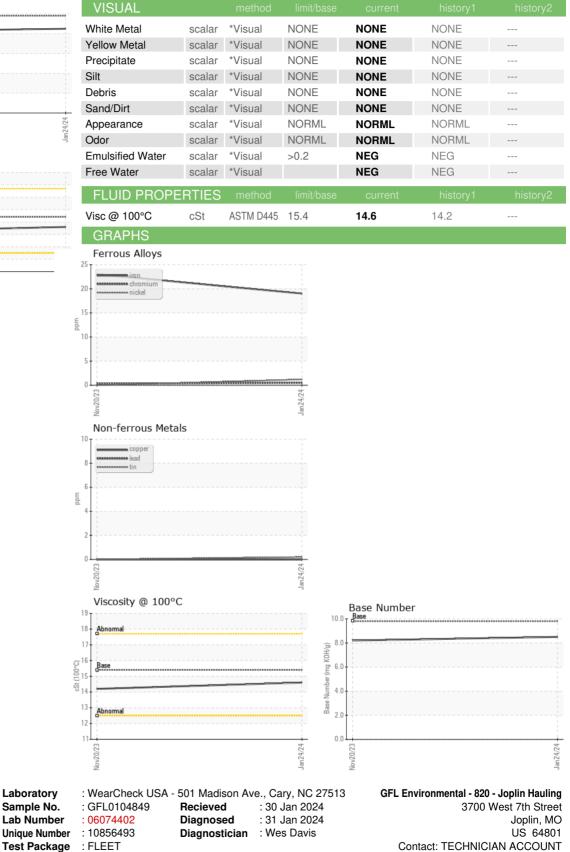
QTS)			Nov2023	Jan2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104849	GFL0088220	
Sample Date		Client Info		24 Jan 2024	20 Nov 2023	
Machine Age	mls	Client Info		245781	245781	
Oil Age	mls	Client Info		245781	0	
Oil Changed		Client Info		N/A	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
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	>100	19	23	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	1	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	4	2	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	0	0	
Tin	ppm	ASTM D5185m	>15	<1	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	0	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	58	64	
Manganese	ppm	ASTM D5185m	0	<1	0	
Magnesium	ppm	ASTM D5185m	1010	950	1121	
Calcium	ppm	ASTM D5185m	1070	1008	1206	
Phosphorus	ppm	ASTM D5185m	1150	1008	1247	
Zinc	ppm	ASTM D5185m	1270	1272	1592	
Sulfur	ppm	ASTM D5185m	2060	3004	3662	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	
Sodium	ppm	ASTM D5185m		12	24	
Potassium	ppm	ASTM D5185m	>20	<1	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	8.7	9.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	20.9	
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	19.1	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.5	8.2	



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To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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)

Certificate L2367

Laboratory

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