

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 712003

Fluid

Component Diesel Engine

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

		•,			May2023		
	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		GFL0071365		
to monitor.	Sample Date		Client Info		03 May 2023		
and model	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Sample Status				NORMAL		
ation in the	CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
itable	Glycol		WC Method		NEG		
lition of the	WEAR META	_S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>100	22		
	Chromium	ppm	ASTM D5185m	>20	<1		
	Nickel	ppm	ASTM D5185m	>4	3		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m	>20	1		
	Lead	ppm	ASTM D5185m	>40	0		
	Copper	ppm	ASTM D5185m	>330	37		
	Tin	ppm	ASTM D5185m	>15	<1		
	Vanadium	ppm	ASTM D5185m		0		
	Cadmium	ppm	ASTM D5185m		0		
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	12		
	Barium	ppm	ASTM D5185m	0	0		
	Molybdenum	ppm	ASTM D5185m	60	66		
	Manganese	ppm	ASTM D5185m	0	1		
	Magnesium	ppm	ASTM D5185m	1010	924		
	Calcium	ppm	ASTM D5185m	1070	1117		
	Phosphorus	ppm	ASTM D5185m	1150	942		
	Zinc	ppm	ASTM D5185m	1270	1215		
	Sulfur	ppm	ASTM D5185m	2060	2939		
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	9		
	Sodium	ppm	ASTM D5185m		2		
	Potassium	ppm	ASTM D5185m	>20	1		
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	9.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0		
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6		
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.5		
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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.

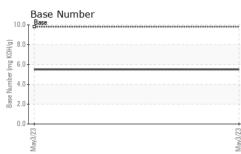
Fluid Condition

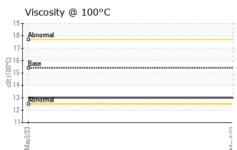
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

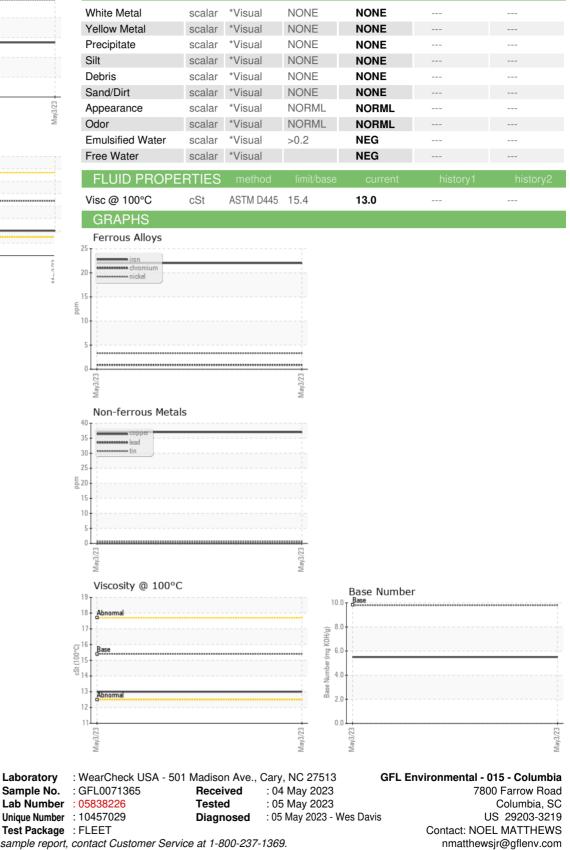


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VISUAL







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

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