

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id **T299** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 10W30 (--- QTS)** 

## 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.

SAMPLE INFORM	<b>/</b> ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0120587	PCA0089136	PCA0080935
Sample Date		Client Info		10 May 2024	23 Dec 2023	16 Dec 2022
Machine Age	mls	Client Info		289156	266117	197437
Oil Age	mls	Client Info		23058	60683	72497
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	29	69	<b>1</b> 14
Chromium	ppm	ASTM D5185m	>20	0	<1	1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	4	3
Lead	ppm	ASTM D5185m	>40	<1	10	1
Copper	ppm	ASTM D5185m	>330	3	9	6
Tin	ppm	ASTM D5185m	>15	1	2	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	7	9	0
Barium	ppm	ASTM D5185m	0	<1	0	2
Molybdenum	ppm	ASTM D5185m	50	64	66	70
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	950	911	792	1037
Calcium	ppm	ASTM D5185m	1050	1180	1908	1292
Phosphorus	ppm	ASTM D5185m	995	1096	1066	1125
Zinc	ppm	ASTM D5185m	1180	1283	1604	1371
Sulfur	ppm	ASTM D5185m	2600	3196	3122	2358
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	10	11
Sodium	ppm	ASTM D5185m		3	6	0
Potassium	ppm	ASTM D5185m	>20	2	6	10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	1.2	2.2
Nitration	Abs/cm	*ASTM D7624	>20	10.6	13.8	17.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	29.3	33.1
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0	28.8	35.1
Base Number (BN)	mg KOH/g	ASTM D2896		6.6	4.9	3.0

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VISUAL		method				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
	RTIES	method	limit/base	current	historv1	history2
		method	innibase	ourrent	motory	motoryz
Visc @ 100°C	cSt	ASTM D445	12.00	12.1	13.7	13.0
CRADHS						



Certificate 12367 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)

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