

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id **T320** 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

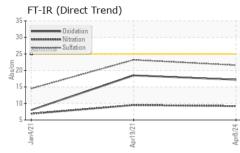
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

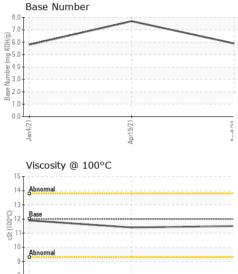
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0119981	PCA0047383	PCA0039670	
Sample Date		Client Info		08 Apr 2024	19 Apr 2021	04 Jan 2021	
Machine Age	mls	Client Info		281859	75159	49945	
Oil Age	mls	Client Info		10219	0	0	
Oil Changed		Client Info		Changed	N/A	Changed	
Sample Status				NORMAL	NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	0.4	
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	30	27	36	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	8	6	28	
Lead	ppm	ASTM D5185m	>40	1	<1	<1	
Copper	ppm	ASTM D5185m	>330	2	3	5	
Tin	ppm	ASTM D5185m	>15	<1	<1	<1	
Antimony	ppm	ASTM D5185m			0	0	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	2	3	9	10	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m	50	64	62	42	
Manganese	ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m	950	976	965	838	
Calcium	ppm		1050	1240	1105	1144	
Phosphorus	ppm	ASTM D5185m	995	1115	1009	891	
Zinc	ppm	ASTM D5185m	1180	1334	1207	1020	
Sulfur	ppm	ASTM D5185m	2600	3170	2415	2474	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	20	6	8	
Sodium	ppm	ASTM D5185m		1	2	3	
Potassium	ppm	ASTM D5185m	>20	6	20	69	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.7	0.5	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	9.2	9.5	6.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	23.2	14.5	
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	18.5	8	
Base Number (BN)	mg KOH/g	ASTM D2896		5.9	7.7	5.8	
3:43:09) Rev: 1					Submitted By: Paul Riddick		



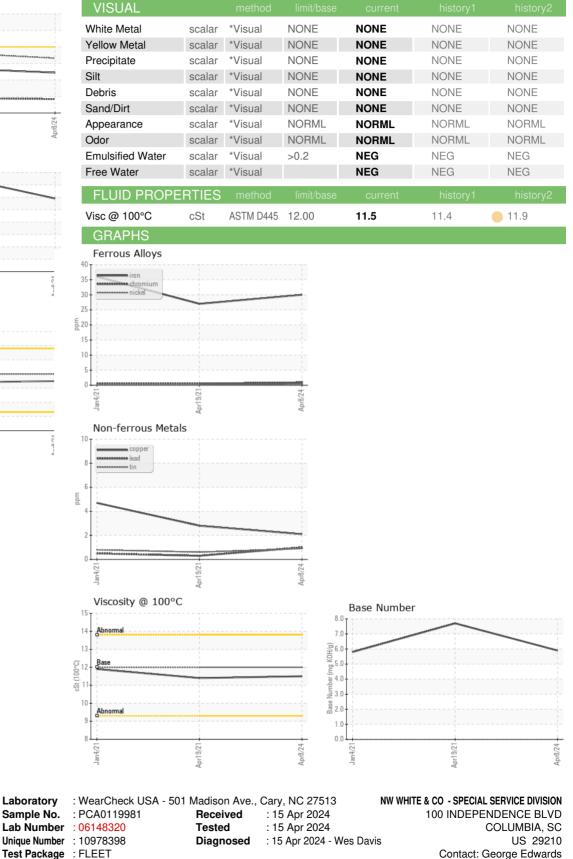
Jan4/21

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Apr19/21



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 12367

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