

OIL ANALYSIS REPORT



Machine Id **T270** 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

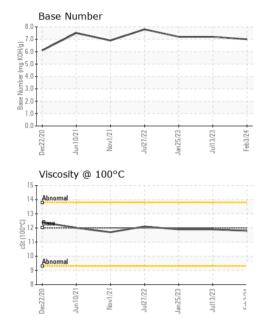
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0113155	PCA0096957	PCA0091189
Sample Date		Client Info		03 Feb 2024	13 Jul 2023	25 Jan 2023
Machine Age	mls	Client Info		224708	203396	178361
Oil Age	mls	Client Info		0	25035	25713
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	16	17	60
Chromium	ppm	ASTM D5185m	>20	0	<1	2
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	3	4	<1
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	1	1	2
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	2	6	79
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	50	60	65	3
Manganese	ppm	ASTM D5185m	0	0	<1	2
Magnesium	ppm	ASTM D5185m	950	957	954	16
Calcium	ppm	ASTM D5185m	1050	1105	1285	2435
Phosphorus	ppm	ASTM D5185m	995	1020	1081	896
Zinc	ppm	ASTM D5185m	1180	1228	1335	1089
Sulfur	ppm	ASTM D5185m	2600	2748	3486	2682
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	6	6
Sodium	ppm	ASTM D5185m		<1	<1	7
Potassium	ppm	ASTM D5185m	>20	<1	4	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.9	0.8
Nitration	Abs/cm	*ASTM D7624	>20	9.3	9.7	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	21.2	20.9
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
	Ale - / damas		. 05	10 5	10.0	10.0
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	16.6	16.6
Oxidation Base Number (BN)	mg KOH/g	ASTM D/414 ASTM D2896	>20	16.5 7.0	7.2	7.2

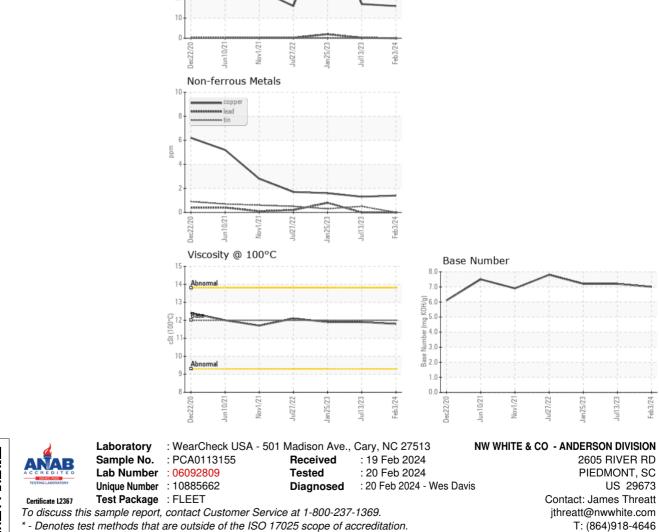
Submitted By: Under NWWDUN - James Threatt



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VISUAL		method	limit/base	current	history1	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
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.8	11.9	11.9
GRAPHS						
Ferrous Alloys						
50 iron 1		Λ				
50 - chromium		/ \				
40-	/	- \				
30		$\langle \rangle$				
Tuc						



* - 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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