

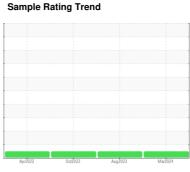
Wear

oil

## **OIL ANALYSIS REPORT**

WATKINS BLOCK TRUCK SHOP OMAHA Mack Semi/mule [WATKINS BLOCK TRUCK SHOP OMAHA] Componen **FRONT FRONT Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (39 QTS)





NORMAL

## DIAGNOSIS SAMPLE INFORMATION SBP0005905 SBP0004674 SBP0001657 Client Info Sample Number Recommendation Resample at the next service interval to monitor. Sample Date Client Info 21 Mar 2024 28 Aug 2023 04 Oct 2022 293769 Machine Age mls **Client Info** 276311 244490 All component wear rates are normal. Oil Age mls Client Info 17458 31833 15079 Oil Changed Client Info Changed Changed Changed Contamination NORMAL Sample Status NORMAL NORMAL There is no indication of any contamination in the CONTAMINATION Fluid Condition Fuel >3.0 <1.0 <1.0 WC Method <1.0 The BN result indicates that there is suitable Water WC Method >0.2 NEG NEG NEG alkalinity remaining in the oil. The condition of the oil is suitable for further service. Glycol WC Method NEG NEG NEG WEAR METALS >120 17 41 23 Iron ppm ASTM D5185m ASTM D5185m >20 <1 Chromium ppm 1 <1 Nickel >5 ppm ASTM D5185m <1 <1 0 Titanium ppm ASTM D5185m >2 <1 0 <1 Silver ASTM D5185m >2 0 0 0 ppm 3 Aluminum ASTM D5185m >20 4 3 ppm 4 8 Lead ASTM D5185m >40 3 ppm ASTM D5185m >330 3 3 4 Copper ppm Tin ppm ASTM D5185m >15 1 <1 1 Vanadium ppm ASTM D5185m <1 0 0 Cadmium 0 0 ASTM D5185m <1 ppm Boron mag ASTM D5185m 2 3 4 10 Barium ASTM D5185m 0 <1 1 8 ppm 60 Molybdenum ASTM D5185m 50 53 43 ppm ASTM D5185m 0 Manganese ppm <1 1 <1 Magnesium ASTM D5185m 950 896 922 821 ppm Calcium ppm ASTM D5185m 1050 1120 1149 1222 Phosphorus ASTM D5185m 995 1001 924 901 ppm Zinc ppm ASTM D5185m 1180 1220 1188 1116 Sulfur ASTM D5185m 2600 3125 3158 3528 ppm 5 6 6 Silicon ASTM D5185m >25 ppm Sodium ASTM D5185m 7 8 0 ppm Potassium ASTM D5185m >20 3 1 0 ppm Soot % % \*ASTM D7844 0.5 0.9 07 ~1 Ν

/0	1011101011	21	010	0.0	0.1
Abs/cm	*ASTM D7624	>20	11.2	11.8	11.7
Abs/.1mm	*ASTM D7415	>30	20.5	24.6	22.0
TION	method				history2
Abs/.1mm	*ASTM D7414	>25	16.9	19.1	17.0
ma KOH/a	ASTM D2896		5.5	4.4	7.9
	Abs/.1mm TION Abs/.1mm	Abs/.1mm*ASTM D7415TIONmethodAbs/.1mm*ASTM D7414	Abs/.1mm *ASTM D7415 >30   TION method limit/base   Abs/.1mm *ASTM D7414 >25	Abs/.1mm *ASTM D7415 >30 20.5   TION method limit/base current   Abs/.1mm *ASTM D7414 >25 16.9	Abs/.1mm *ASTM D7415 >30 20.5 24.6   TION method limit/base current history1   Abs/.1mm *ASTM D7414 >25 16.9 19.1

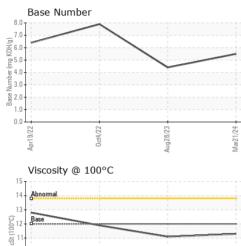


Ba

Abnorm

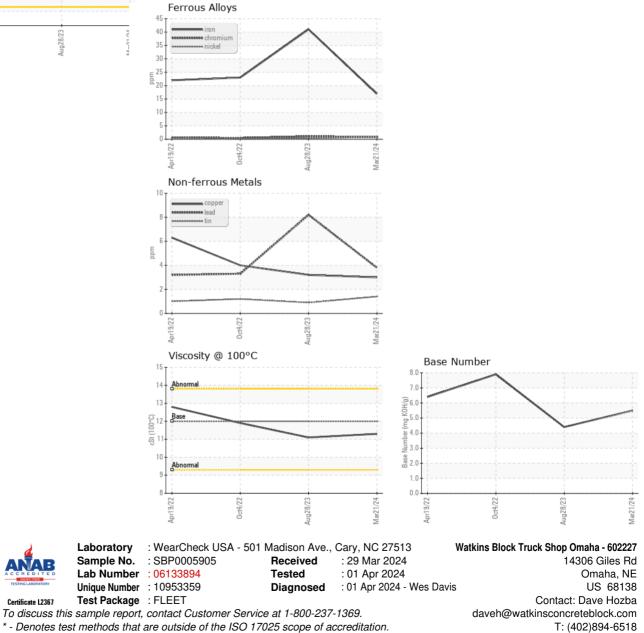
Apr19/22

## **OIL ANALYSIS REPORT**



0ct4/22

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
FLUID PROPERT		method	limit/base	current	history1	history2
		method	IIIIII/Dase	current	nistory i	TIIStoryz
Visc @ 100°C	cSt	ASTM D445	12.00	11.3	11.1	11.9
GRAPHS						



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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