

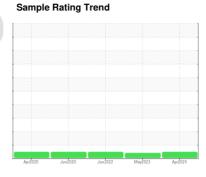
**OIL ANALYSIS REPORT** 



Watkins Block Truck Shop Omaha 207 [Watkins Block Truck Shop Omaha]

Front Diesel Engine

PETRO CANADA DURON SHP 10W30 (38 QTS)





# DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

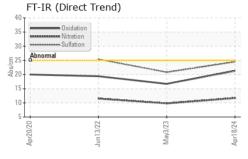
# **Fluid Condition**

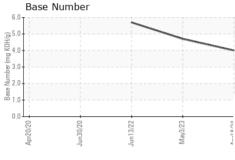
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

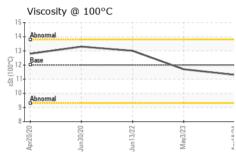
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0007083	SBP0002224	SBP0000265
Sample Date		Client Info		18 Apr 2024	03 May 2023	13 Jun 2022
Machine Age	mls	Client Info		133283	111276	96309
Oil Age	mls	Client Info		23198	8077	14930
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	NORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel	•	WC Method	>3.0	<1.0	1.0	<1.0
Water			>0.0	NEG	NEG	NEG
Glycol		WC Method	70.2	NEG	NEG	NEG
			-			
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	31	21	27
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	5	5
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	3	3	3
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	2	8	24
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	60	47	10
Manganese	ppm	ASTM D5185m	0	1	<1	1
Magnesium	ppm	ASTM D5185m	950	972	953	726
Calcium	ppm	ASTM D5185m	1050	1155	1281	1385
Phosphorus	ppm	ASTM D5185m	995	1036	992	743
Zinc	ppm	ASTM D5185m	1180	1278	1189	889
Sulfur	ppm	ASTM D5185m	2600	2889	3388	2815
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	7
Sodium	ppm	ASTM D5185m		6	2	4
Potassium	ppm	ASTM D5185m	>20	9	8	9
Chlorine	ppm	ASTM D5185m				
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.7	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	11.7	9.8	11.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	20.8	25.4
		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm		>25	21.3	16.7	19.4
Base Number (BN)	mg KOH/g	ASTM D7414	720	4.0	4.7	5.7
Dast Number (DIV)	illy NOT/y	70 LINI D5030		4.0	4.7	J./



# **OIL ANALYSIS REPORT**



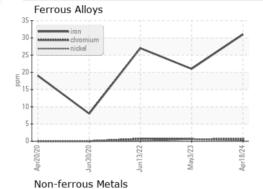




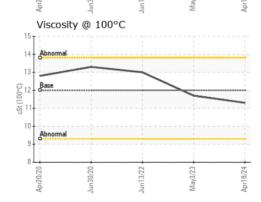
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

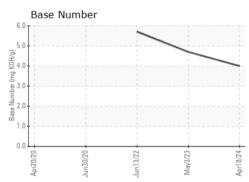
FLUID PROPER	IIIEO	memod			riistory i	History∠
Visc @ 100°C	cSt	ASTM D445	12.00	11.3	11.7	13.0

### **GRAPHS**



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	30/20	13/27	18/24









Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : SBP0007083 Lab Number : 06158367

Unique Number : 10993790 Test Package : FLEET

Received **Tested** Diagnosed

: 23 Apr 2024 : 24 Apr 2024 : 24 Apr 2024 - Wes Davis

Watkins Block Truck Shop Omaha - 602227 14306 Giles Rd Omaha, NE US 68138

Submitted By: Dave Hozba

Contact: Dave Hozba daveh@watkinsconcreteblock.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

T: (402)894-6518

\* - 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)