

Watkins Block Truck Shop Omaha 55 [Watkins Block Truck Shop Omaha]

Middle Diesel Engine

PETRO CANADA DURON SHP 10W30 (10 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

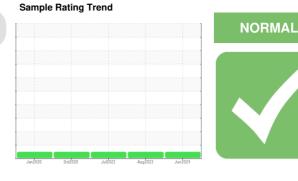
All component wear rates are normal.

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	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0005909	SBP0004677	SBP0000243
Sample Date		Client Info		17 Jun 2024	01 Aug 2023	12 Jul 2022
Machine Age	hrs	Client Info		114047	13407	12705
Oil Age	hrs	Client Info		294	373	334
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	N	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		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	18	12	12
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm		>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	1	3
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	1	0	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<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	13	15	38
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	63	52	42
Manganese	ppm	ASTM D5185m	0	1	0	<1
Magnesium	ppm	ASTM D5185m	950	1047	1005	881
Calcium	ppm	ASTM D5185m	1050	1262	1143	1254
Phosphorus	ppm	ASTM D5185m	995	1188	1031	948
Zinc	ppm	ASTM D5185m	1180	1394	1329	1146
Sulfur	ppm	ASTM D5185m	2600	3912	3740	3272
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	3	6
Sodium	ppm	ASTM D5185m		3	<1	2
Potassium	ppm	ASTM D5185m	>20	2	2	2
Chlorine	ppm	ASTM D5185m				
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.4
Nitration	Abs/cm		>20	6.4	6.6	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	17.8	20.1
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	13.7	14.5
Base Number (BN)	mg KOH/g	ASTM D2896	200	9.6	9.2	10.4
	ing non g	10111102000		0.0	0.2	10.1



0.0 LE

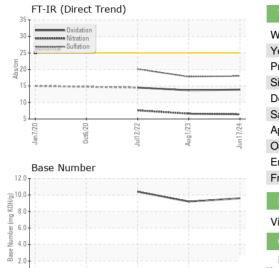
16. 15 14 Abno

(100°C) 12 11 cs Bas

> 10 Abno

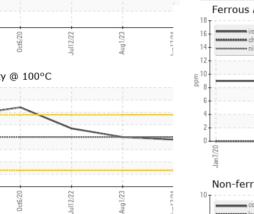
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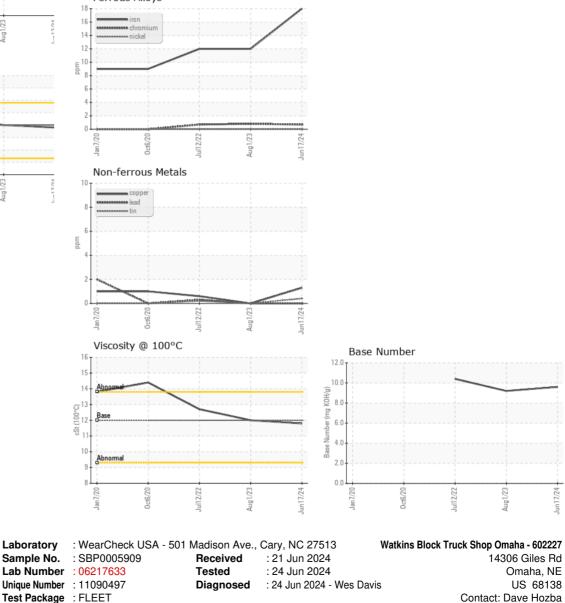
OIL ANALYSIS REPORT



Jan7/20	0ct6/20	Jul12/22	Aug 1/23	Jun17/24	Appearance	scala
Ja	00	Jul	Au	Jun	Odor	scala
Base N	lumber				Emulsified Water	scala
I					Free Water	scala
		-			FLUID PROPER	TIES
			+		Visc @ 100°C	cSt
					GRAPHS	
-					Ferrous Alloys	
Jan7/20	0ct6/20	Jul12/22	Aug1/23	VC/L 11	iron 16- 14- 12-	
Viscosi	ty @ 100°	С				
Abnormal	\sim				6	
					2	

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 PROPERT		method	limit/base	current	history1	history2
I LOID I NOI LNI		methou	iiiiii/base	Current	TIISTOLA	mstoryz
Visc @ 100°C	cSt	ASTM D445	12.00	11.8	12.0	12.7
GRAPHS						





Contact: Dave Hozba daveh@watkinsconcreteblock.com T: (402)894-6518 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) E:

Certificate 12367

Laboratory

Sample No.