

OIL ANALYSIS REPORT

Sample Number Sample Date

mls

Machine Age

(AY883H) Supermarket - Tractor FREIGHTLINER 107A3689

Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Fluid

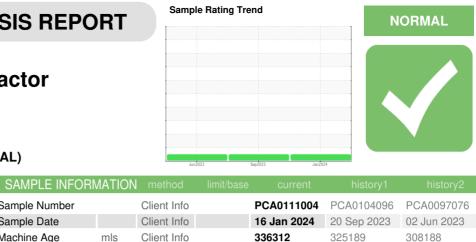
All component wear rates are normal.

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.



Machine Age	11115			330312	020100	500100
Oil Age	mls	Client Info		11123	24483	7482
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	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	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	18	48	37
Chromium	ppm	ASTM D5185m	>5	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>30	5	9	7
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m		7	11	6
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	26	20	64
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	65	64	67
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	882	880	871
Calcium	ppm	ASTM D5185m	1050	1171	1168	1212
Phosphorus	ppm	ASTM D5185m	995	1049	993	1014
Zinc	ppm	ASTM D5185m	1180	1221	1236	1182
Sulfur	ppm	ASTM D5185m	2600	3028	2718	3566
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon				_	0	5
	ppm	ASTM D5185m	>20	4	6	C
Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>20	4	2	2
	ppm	ASTM D5185m		1	2	2
Potassium INFRA-RED	ppm	ASTM D5185m ASTM D5185m	>20	1 0	2 6	2 5
Potassium INFRA-RED Soot %	ppm ppm	ASTM D5185m ASTM D5185m method	>20 limit/base >3	1 0 current	2 6 history1	2 5 history2
Potassium INFRA-RED Soot % Nitration	ppm ppm	ASTM D5185m ASTM D5185m method *ASTM D7844	>20 limit/base >3 >20	1 0 current 0.3	2 6 history1 0.5	2 5 history2 0.2
Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7824 *ASTM D7624	>20 limit/base >3 >20	1 0 current 0.3 6.8	2 6 history1 0.5 8.9	2 5 history2 0.2 7.8
Soot % Nitration Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7824 *ASTM D7624	>20 limit/base >3 >20 >30	1 0 current 0.3 6.8 18.8	2 6 history1 0.5 8.9 21.0	2 5 history2 0.2 7.8 18.5

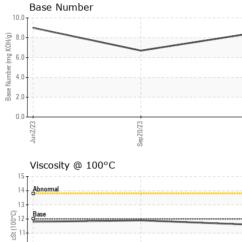


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8. Jun2/23

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OIL ANALYSIS REPORT



	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
Sep 20/23 Jan 16/24	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sep	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	11.6	11.9	11.8
	GRAPHS						
	Ferrous Alloys						
23	iron						
Sep 20/23	40 - nickel						
0	30						
	ш dd						
	20 -						
	10-						
				24			
	Jun2/23	Sep20/23		Jan 16/24			
	Non-ferrous Meta			7			
	¹² T	13					
	10 - copper	\sim					
	8						
	Md 6-						
	قِ 6- 4-						
	4 2						
	4-						
	4 2 0	20/23		16/24			
	4 - 2 - 0 E27Cmg	Sep20/23		Jan16/24			
	4 2 0	07			Base Number		
	Viscosity @ 100°C	07		10.4			
	Viscosity @ 100°C	07		10.1			
	Viscosity @ 100°C	07		10.1			
	Viscosity @ 100°C	07		10.1			
	Viscosity @ 100°C	07		10.1			
	Viscosity @ 100°C	07		Т 10.1 (Б)НОХ 6.1 ряц			
	Viscosity @ 100°C	07		10.1 (D)HOX 6.1 Dum Jaquiny, see 2.1	0		
	Viscosity @ 100°C			10.0 (6)(C)(C)(C)(C)(C)(C)(C)(C)(C)(C)(C)(C)(C)		53	
	Viscosity @ 100°C	07		10.1 (D)HOX 6.1 Dum Jaquiny, see 2.1	0	Sep 20/23	
Laboratory Sample No. Lab Number Unique Number Unique Number Test Package	Viscosity @ 100°C	501 Madis Recieved Diagnost	ed : 29 . ed : 30 . ician : We	10.1 (0)HOX Bull sequence 10.1 (0)HOX Bull sequence 10.1 (0)HOX Bull sequence 2.1 0.1 F7, NC 27511 Jan 2024 Jan 2024 Jan 2024 s Davis	Jun2/23	xe - Shop 1071 - Su 60 Conta	