

(P1021280) Dixon Transport-Tractor [Dixon Transport-Tractor] 325A325541 Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

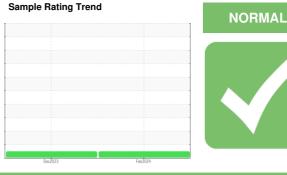
All component wear rates are normal.

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.

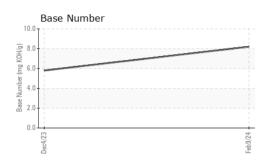


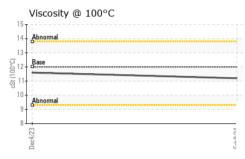


SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0114351	PCA0114312	
Sample Date		Client Info		09 Feb 2024	04 Dec 2023	
Machine Age	mls	Client Info		463779	444589	
Oil Age	mls	Client Info		19190	44312	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT		method	limit/base	current	history1	history2
		WC Method	>5		<1.0	
Fuel				<1.0		
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	6	15	
Chromium	ppm	ASTM D5185m	>5	1	1	
Nickel	ppm	ASTM D5185m	>2	<1	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m		6	5	
Lead	ppm	ASTM D5185m	>30	<1	<1	
Copper	ppm		>150	4	9	
Tin	ppm	ASTM D5185m	>5	۔ <1	0	
Vanadium	ppm	ASTM D5185m	20	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	9	2	
Barium	ppm	ASTM D5185m	0	0	0	
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m	0 50	0 60	0 55	
Molybdenum Manganese			•			
Molybdenum	ppm	ASTM D5185m	50	60	55	
Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m	50 0	60 <1	55 0	
Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	50 0 950	60 <1 1007	55 0 1044	
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 0 950 1050	60 <1 1007 1137	55 0 1044 1274	
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 0 950 1050 995	60 <1 1007 1137 1076	55 0 1044 1274 1095	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 0 950 1050 995 1180	60 <1 1007 1137 1076 1287	55 0 1044 1274 1095 1282	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 0 950 1050 995 1180 2600	60 <1 1007 1137 1076 1287 2992	55 0 1044 1274 1095 1282 2722	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 0 950 1050 995 1180 2600 limit/base	60 <1 1007 1137 1076 1287 2992 current	55 0 1044 1274 1095 1282 2722 history1	
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 0 950 1050 995 1180 2600 <i>limit/base</i> >20	60 <1 1007 1137 1076 1287 2992 current 4	55 0 1044 1274 1095 1282 2722 history1 7	 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 0 950 1050 995 1180 2600 <i>limit/base</i> >20	60 <1 1007 1137 1076 1287 2992 current 4 2	55 0 1044 1274 1095 1282 2722 history1 7 0	 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 0 950 1050 995 1180 2600 limit/base >20 limit/base	60 <1 1007 1137 1076 1287 2992 current 4 2 1 1 current	55 0 1044 1274 1095 1282 2722 history1 7 0 <1 history1	 history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m	50 0 950 1050 995 1180 2600 limit/base >20 limit/base >20	60 <1 1007 1137 1076 1287 2992 current 4 2 2 1 current 0.3	55 0 1044 1274 1095 1282 2722 history1 7 0 <1 history1 0.5	 history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	ASTM D5185m ASTM D5185m	50 0 950 1050 995 1180 2600 limit/base >20 limit/base >20 limit/base >3 >20	60 <1 1007 1137 1076 1287 2992 <u>current</u> 4 2 2 1 1 <u>current</u> 0.3 7.4	55 0 1044 1274 1095 1282 2722 history1 7 0 <1 +istory1 0.5 9.2	 history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7844	50 0 950 1050 995 1180 2600 limit/base >20 limit/base >3 >20 >30	60 <1 1007 1137 1076 1287 2992 <u>current</u> 4 2 1 <u>current</u> 0.3 7.4 18.5	55 0 1044 1274 1095 1282 2722 history1 7 0 <1 //>/////////////////////////////////	 history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAD	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7624 *ASTM D7415	50 0 950 1050 995 1180 2600 imit/base >20 imit/base >3 >20 >30 imit/base	60 <1 1007 1137 1076 1287 2992 current 4 2 1 current 0.3 7.4 18.5 current	55 0 1044 1274 1095 1282 2722 history1 7 0 <1 history1 0.5 9.2 22.2 history1	 history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAM	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415	50 0 950 1050 995 1180 2600 limit/base >20 limit/base >3 >20 >30	60 <1 1007 1137 1076 1287 2992 current 4 2 1 current 0.3 7.4 18.5 current 14.8	55 0 1044 1274 1095 1282 2722 history1 7 0 <1 history1 0.5 9.2 22.2 history1 19.5	 history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAD	ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7624 *ASTM D7415	50 0 950 1050 995 1180 2600 imit/base >20 imit/base >3 >20 >30 imit/base	60 <1 1007 1137 1076 1287 2992 current 4 2 1 current 0.3 7.4 18.5 current	55 0 1044 1274 1095 1282 2722 history1 7 0 <1 history1 0.5 9.2 22.2 history1	 history2 history2 history2 history2



OIL ANALYSIS REPORT





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.2	11.6	
GRAPHS Ferrous Alloys						
	<u> </u>		Feb9/24			
Dec4/23			69			
Non-ferrous Metals	5		ŭ 			
Non-ferrous Metals	s		<u></u>			
Non-ferrous Metals	s		<i>2</i>			
Non-ferrous Metals	s					

Base Number

9.0

8.0 (b7.0 6.0 KOH/d) 6.0

Jaquan 4.0 3.0

> 1.0 0.0

Dec4/23

Feb9/24.

: 26 Feb 2024

: 27 Feb 2024



Unique Number : 10898950 Diagnosed : 27 Feb 2024 - Wes Davis Test Package : FLEET Contact: Mike Shoemaker Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. Shop3250@transervice.com * - 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)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Tested

Viscosity @ 100°C

14

13

Abnorm

Dec4/23

: PCA0114351

cSt (100°C)

Laboratory Sample No.

Lab Number : 06100720

Transervice - Shop 3250 - Dixon Transport

1124 E. River Road

Dixon, IL

Т:

F:

US 61021

Feb 9/24