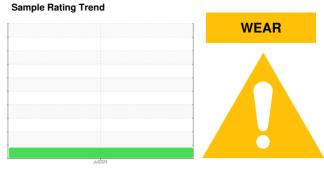


OIL ANALYSIS REPORT

Walgreens - Tractor [Walgreens - Tractor] 136A625090

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GAL)



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

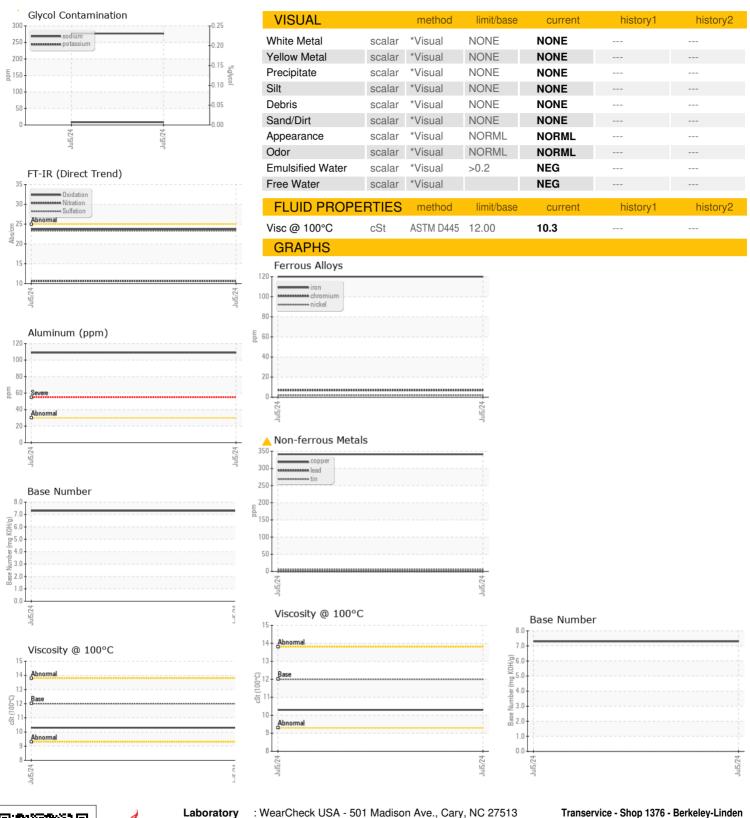
Fluid Condition

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

GAL)				Jul2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0123072		
Sample Date		Client Info		05 Jul 2024		
Machine Age	mls	Client Info		30989		
Oil Age	mls	Client Info		30989		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	120		
Chromium	ppm	ASTM D5185m	>5	7		
Nickel	ppm	ASTM D5185m	>2	2		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	1		
Aluminum	ppm	ASTM D5185m	>30	109		
Lead	ppm	ASTM D5185m	>30	0		
Copper	ppm	ASTM D5185m	>150	<u>^</u> 341		
Tin	ppm	ASTM D5185m	>5	6		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	38		
Barium	ppm	ASTM D5185m	0	2		
Molybdenum	ppm	ASTM D5185m	50	55		
Manganese	ppm	ASTM D5185m		7		
Magnesium	ppm	ASTM D5185m	950	676		
Calcium	ppm	ASTM D5185m	1050	2107		
Phosphorus	ppm	ASTM D5185m	995	834		
Zinc	ppm	ASTM D5185m	1180	1117		
Sulfur	ppm	ASTM D5185m	2600	2290		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	11		
Sodium	ppm	ASTM D5185m		8		
Potassium	ppm	ASTM D5185m	>20	277		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7		
Nitration	Abs/cm	*ASTM D7624	>20	10.6		
Sulfation	Abs/.1mm	*ASTM D7415		23.3		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.7		
Base Number (BN)	mg KOH/g	ASTM D2896		7.3		



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

: PCA0123072 Lab Number : 06235529 Unique Number : 11124363 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Jul 2024

Tested : 15 Jul 2024 Diagnosed : 16 Jul 2024 - Don Baldridge

Linden, NJ US 07036 Contact: Shop 1376 Oil Analysis shop1376@transervice.com

3425 Tremley Point Road

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

 st - 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)

Report Id: TSV1376 [WUSCAR] 06235529 (Generated: 07/16/2024 11:55:34) Rev: 1

Submitted By: Ryan Booth

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