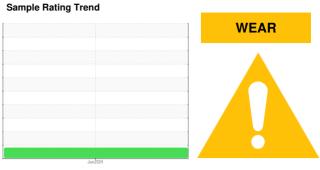


OIL ANALYSIS REPORT

(72587Z) Walgreens - Tractor [Walgreens - Tractor] 136A624026

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GAL)



DIAGNOSIS

Recommendation

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.

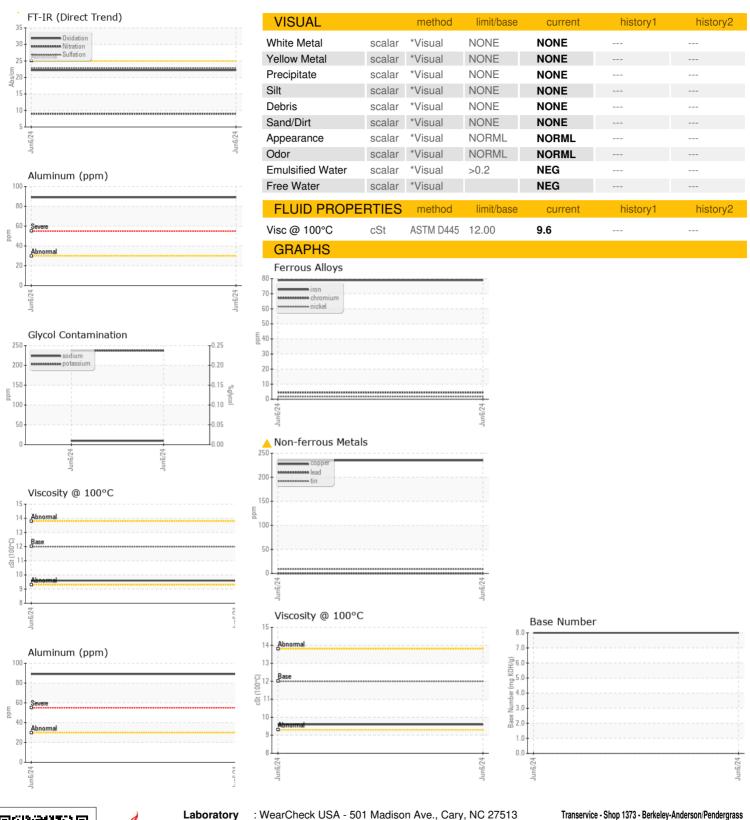
Fluid Condition

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)				Jun2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0128182		
Sample Date		Client Info		06 Jun 2024		
Machine Age	mls	Client Info		29268		
Oil Age	mls	Client Info		29268		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATION	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
WEAR METALS	3	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>80	79		
Chromium	ppm	ASTM D5185m	>5	4		
Nickel	ppm	ASTM D5185m	>2	2		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	1		
Aluminum	ppm	ASTM D5185m	>30	89		
Lead	ppm	ASTM D5185m	>30	0		
Copper	ppm	ASTM D5185m	>150	235		
Tin	ppm	ASTM D5185m	>5	9		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	31		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	50	42		
Manganese	ppm	ASTM D5185m	0	8		
Magnesium	ppm	ASTM D5185m	950	539		
Calcium	ppm	ASTM D5185m	1050	1811		
Phosphorus	ppm	ASTM D5185m	995	757		
Zinc	ppm	ASTM D5185m	1180	902		
Sulfur	ppm	ASTM D5185m	2600	2384		
CONTAMINANT	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	10		
Sodium	ppm	ASTM D5185m		10		
Potassium	ppm	ASTM D5185m	>20	237		
Glycol	%	*ASTM D2982		NEG		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6		
Nitration	Abs/cm	*ASTM D7624	>20	9.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.2		
Base Number (BN)	mg KOH/g	ASTM D2896		8.0		
	99					



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

: PCA0128182 Lab Number : 06211359

Received **Tested** Diagnosed

: 17 Jun 2024 : 19 Jun 2024 : 19 Jun 2024 - Don Baldridge

101 Alliance Parkway Willamston, SC US 29697

Contact: Sonny Boucher

Unique Number : 11084223 Test Package : FLEET (Additional Tests: Glycol)

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.

sboucher@transervice.com T: (864)226-2304 F: (864)226-2329

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: TSV1373 [WUSCAR] 06211359 (Generated: 06/22/2024 21:46:58) Rev: 1

Submitted By: Sonny Boucher