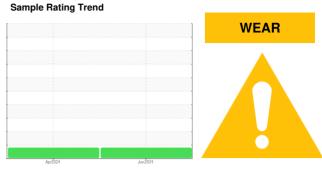


OIL ANALYSIS REPORT

(72600Z) Walgreens - Tractor [Walgreens - Tractor] 136A624298

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.

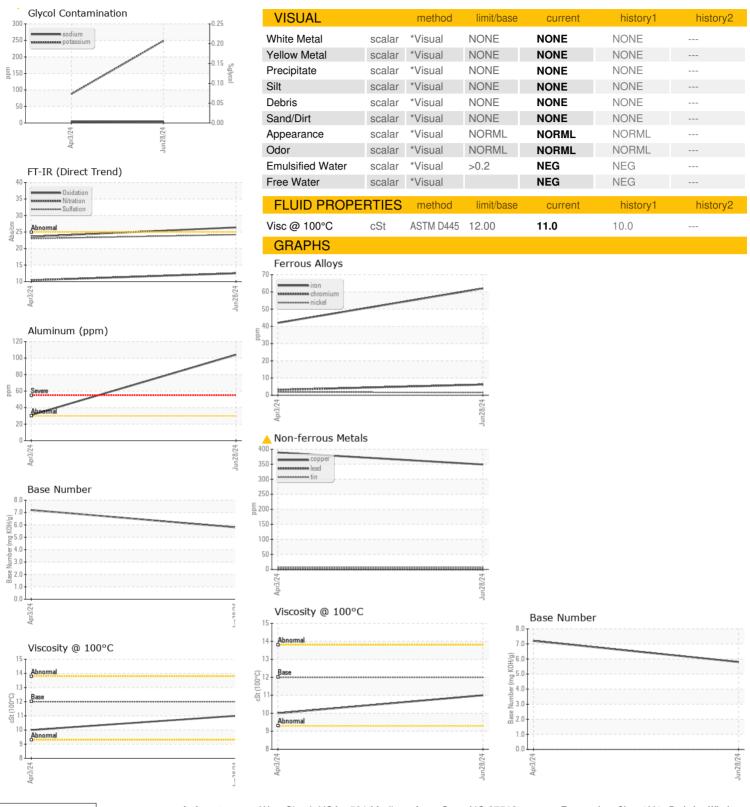
Fluid Condition

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)			Apr2024	Jun 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0119141	PCA0105927	
Sample Date		Client Info		28 Jun 2024	03 Apr 2024	
Machine Age	hrs	Client Info		57599	27321	
Oil Age	hrs	Client Info		57599	27321	
Oil Changed		Client Info		Changed	N/A	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	62	42	
Chromium	ppm	ASTM D5185m	>5	6	3	
Nickel	ppm	ASTM D5185m	>2	2	2	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m	>30	104	31	
Lead	ppm	ASTM D5185m	>30	0	<1	
Copper	ppm	ASTM D5185m		<u>^</u> 349	△ 389	
Tin	ppm	ASTM D5185m	>5	7	7	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	20	42	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m	50	59	58	
Manganese	ppm	ASTM D5185m		4	5	
Magnesium	ppm	ASTM D5185m	950	650	604	
Calcium	ppm	ASTM D5185m	1050	1807	1722	
Phosphorus	ppm	ASTM D5185m	995	907	864	
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1180 2600	1055 1898	983 2386	
CONTAMINAN [*]						
		method ASTM D5185m	limit/base	current	history1	history2
Silicon Sodium	ppm	ASTM D5185m	>20	6 4	7 4	
Potassium	ppm	ASTM D5185m	>20	249	88	
	ррпп					
INFRA-RED	0/	method	limit/base	current	history1	history2
Soot %	% A b a /ama	*ASTM D7844	>3	0.7	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	12.5	10.4	
Sulfation	Abs/.1mm	*ASTM D7415		24.2	23.0	
FLUID DEGRAD	ATION		limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.4	23.6	
Base Number (BN)	mg KOH/g	ASTM D2896		5.8	7.2	



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number : 06234654 Unique Number : 11123488

: PCA0119141 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Jul 2024 Tested

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

Transervice - Shop 1361 - Berkeley-Windsor 4400 State Road 19

Windsor, WI US 53598

Contact: Mike Hurda mhurda@transervice.com T: (608)846-2726

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) F: (608)846-0389 Submitted By: Mike Hurda