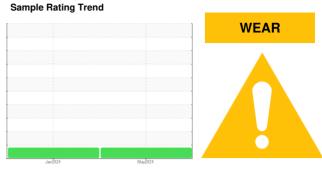


OIL ANALYSIS REPORT

(69978Z) Walgreens - Tractor [Walgreens - Tractor] 136A624309

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 suitable for further service.

GAL)			Jan 2024	May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0119105	PCA0105893	
Sample Date		Client Info		22 May 2024	30 Jan 2024	
Machine Age	hrs	Client Info		48409	25482	
Oil Age	hrs	Client Info		48409	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINAT	ION	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 METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	73	47	
Chromium	ppm	ASTM D5185m	>5	5	4	
Nickel	ppm	ASTM D5185m	>2	<1	2	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	<1	<1	
Aluminum	ppm	ASTM D5185m	>30	56	45	
Lead	ppm	ASTM D5185m	>30	2	<1	
Copper	ppm	ASTM D5185m	>150	<u> </u>	△ 198	
Tin	ppm	ASTM D5185m	>5	4	4	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	25	35	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	50	46	41	
Manganese	ppm	ASTM D5185m	0	4	4	
Magnesium	ppm	ASTM D5185m	950	600	525	
Calcium	ppm	ASTM D5185m	1050	1764	1577	
Phosphorus	ppm	ASTM D5185m	995	775	733	
Zinc	ppm	ASTM D5185m	1180	913	891	
Sulfur	ppm	ASTM D5185m	2600	2287	2152	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	8	6	
Sodium	ppm	ASTM D5185m		9	8	
Potassium	ppm	ASTM D5185m	>20	140	120	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	11.1	9.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	23.4	
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.4	21.5	
Base Number (BN)	mg KOH/g	ASTM D2896		6.6	7.5	



OIL ANALYSIS REPORT







Certificate 12367

Laboratory

Sample No. Lab Number : 06191422 Unique Number : 11048174

: PCA0119105 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 May 2024

Tested : 29 May 2024 Diagnosed : 29 May 2024 - Sean Felton

Transervice - Shop 1361 - Berkeley-Windsor

4400 State Road 19 Windsor, WI US 53598

Contact: Mike Hurda mhurda@transervice.com

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.

T: (608)846-2726 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (608)846-0389