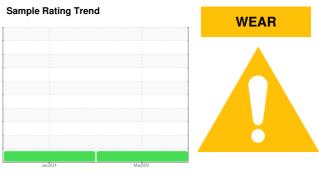


OIL ANALYSIS REPORT

(68548Z) Walgreens - Tractor [Walgreens - Tractor] 136A624290

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. 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.

GAL)			Jan 2024	Mar2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0105933	PCA0105869	
Sample Date		Client Info		14 Mar 2024	25 Jan 2024	
Machine Age	hrs	Client Info		46908	29897	
Oil Age	hrs	Client Info		46908	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	54	33	
Chromium	ppm	ASTM D5185m	>5	4	3	
Nickel	ppm	ASTM D5185m	>2	1	2	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m	>30	56	45	
Lead	ppm	ASTM D5185m	>30	<1	1	
Copper	ppm	ASTM D5185m	>150	<u>^</u> 249	<u>^</u> 211	
Tin	ppm	ASTM D5185m	>5	4	4	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	28	32	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	50	46	42	
Manganese	ppm	ASTM D5185m	0	4	4	
Magnesium	ppm	ASTM D5185m	950	599	534	
Calcium	ppm	ASTM D5185m	1050	1682	1567	
Phosphorus	ppm	ASTM D5185m	995	780	731	
Zinc	ppm	ASTM D5185m	1180	931	877	
Sulfur	ppm	ASTM D5185m	2600	2243	2203	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	9	8	
Sodium	ppm	ASTM D5185m		7	7	
Potassium	ppm	ASTM D5185m	>20	134	113	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	10.0	8.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9	22.5	
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.1	21.2	
Base Number (BN)	mg KOH/g	ASTM D2896		7.1	7.5	



OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No.

Lab Number : 06120711 Unique Number: 10929544

Test Package : FLEET

: PCA0105933 Received **Tested** Diagnosed

: 19 Mar 2024 : 20 Mar 2024 - Sean Felton

: 18 Mar 2024

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. * - 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