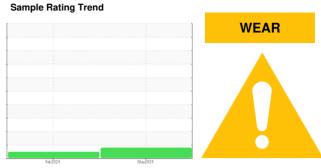


OIL ANALYSIS REPORT

(68547Z) Walgreens - Tractor [Walgreens - Tractor] 136A624293

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 component wear rates are normal.

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.

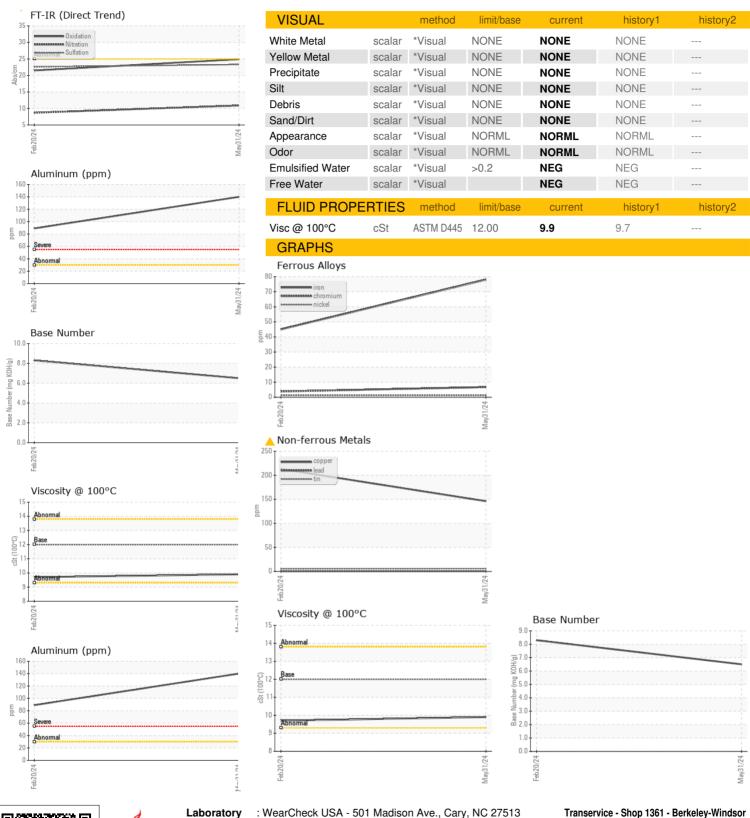
Fluid Condition

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

GAL)			Feb 2024	May2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0119073	PCA0105883	
Sample Date		Client Info		31 May 2024	20 Feb 2024	
Machine Age	hrs	Client Info		54316	27011	
Oil Age	hrs	Client Info		54316	27011	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	NORMAL	
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	78	45	
Chromium	ppm	ASTM D5185m	>5	7	4	
Nickel	ppm	ASTM D5185m	>2	1	1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>30	140	89	
Lead	ppm	ASTM D5185m	>30	<1	<1	
Copper	ppm	ASTM D5185m	>150	146	213	
Tin	ppm	ASTM D5185m	>5	6	5	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	30	38	
Barium	ppm	ASTM D5185m	0	<1	0	
Molybdenum	ppm	ASTM D5185m	50	48	45	
Manganese	ppm	ASTM D5185m	0	5	4	
Magnesium	ppm	ASTM D5185m	950	574	567	
Calcium	ppm	ASTM D5185m	1050	1756	1694	
Phosphorus	ppm	ASTM D5185m	995	839	810	
Zinc	ppm	ASTM D5185m	1180	937	961	
Sulfur	ppm	ASTM D5185m	2600	2156	2524	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	10	8	
Sodium	ppm	ASTM D5185m		4	5	
Potassium	ppm	ASTM D5185m	>20	344	227	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	10.9	8.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	22.6	
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.9	21.5	
Base Number (BN)	mg KOH/g	ASTM D2896		6.5	8.3	



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06202242 Unique Number : 11069703

: PCA0119073 Test Package : FLEET

Received : 06 Jun 2024 Tested

: 11 Jun 2024 Diagnosed : 11 Jun 2024 - Sean Felton

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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: TSV1361 [WUSCAR] 06202242 (Generated: 06/11/2024 12:25:57) Rev: 1

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