

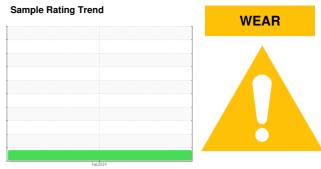
OIL ANALYSIS REPORT

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(65243Z) Walgreens - Tractor [Walgreens - Tractor] 136A624221

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.

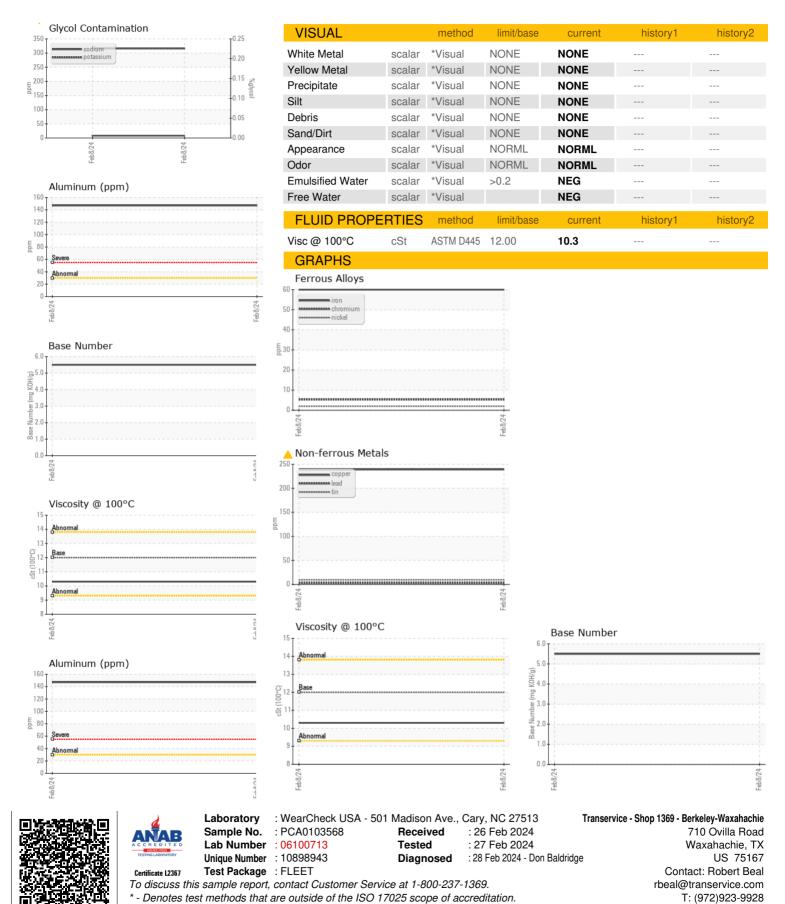
Fluid Condition

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)				Feb 2024		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0103568		
Sample Date		Client Info		08 Feb 2024		
Machine Age	mls	Client Info		60986		
Oil Age	mls	Client Info		60986		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	NC	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS	3	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>80	60		
Chromium	ppm	ASTM D5185m	>5	5		
Nickel	ppm	ASTM D5185m	>2	2		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>30	147		
Lead	ppm	ASTM D5185m	>30	3		
Copper	ppm	ASTM D5185m		<u>^</u> 239		
Tin 	ppm	ASTM D5185m	>5	10		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	26		
Barium	ppm		0	<1		
Molybdenum	ppm	ASTM D5185m	50	44		
Manganese	ppm	ASTM D5185m		4		
Magnesium	ppm	ASTM D5185m	950	608		
Calcium	ppm	ASTM D5185m	1050	1750		
Phosphorus	ppm	ASTM D5185m	995	765		
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1180 2600	951 1718		
	ppm					lai ataw O
CONTAMINANT		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m ASTM D5185m	>20	8		
Sodium Potassium	ppm	ASTM D5185m	>20	8 316		
	ppm					
INFRA-RED	2/	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5		
Nitration	Abs/cm	*ASTM D7624	>20	11.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6		
FLUID DEGRAD		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	27.8		
Base Number (BN)	mg KOH/g	ASTM D2896		5.5		



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

T: (972)923-9928

F: (972)923-9919