

OIL ANALYSIS REPORT



Machine Id 645158

Component Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (----

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

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

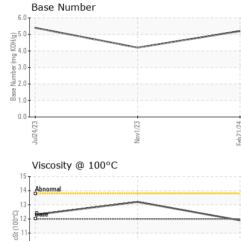
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Number Client Info PCA0093358 PCA0093383 PCA003 Oli Changed Client Info Mothad Not Changed Not Changed	QTS)		Ju	12023	Nov2023 Feb20	24	
Sample Date Cilent Info 21 Feb 2024 01 Nov 2023 24 Jul 2 Machine Age mis Cilent Info 61164 42280 21254 Oil Age mis Cilent Info Not Changed Changed Not Changed Sample Status Client Info Not Changed NoRMAL NORMAL NORMAL Fuel WC Method >5 <1.0 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NO.2 NEG NEG NEG Machine Mppm ASTM D5185m >100 41 75 37 Chromium ppm ASTM D5185m >4 <1 <1 0 Nickel ppm ASTM D5185m >20 2 2 1 1 Nickel ppm ASTM D5185m >3 <1 <1 1 1 1 1 1 1 1 1 1 1 1 <th>SAMPLE INFOR</th> <th>MATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
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Copper ppm ASTM D5185m >330 6 16 11 Tin ppm ASTM D5185m >15 1 3 2 Vanadium ppm ASTM D5185m <1	Aluminum	ppm	ASTM D5185m	>20	22	55	34
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Magnesium ppm ASTM D5185m 950 857 739 748 Calcium ppm ASTM D5185m 1050 2427 1477 1375 Phosphorus ppm ASTM D5185m 995 1541 909 779 Zinc ppm ASTM D5185m 1180 1823 1031 937 Sulfur ppm ASTM D5185m 2600 6160 2768 3358 CONTAMINANTS method limit/base current history1 hist Silicon ppm ASTM D5185m >25 18 16 12 Sodium ppm ASTM D5185m >20 52 147 85 INFRA-RED method limit/base current history1 hist Soot % % *ASTM D7844 >3 0.4 0.5 0.3 Nitration Abs/cm *ASTM D7624 >20 10.1 13.0 11.0 Sulfation Abs/.1mm *ASTM D7415<	Molybdenum	ppm	ASTM D5185m	50	49	20	12
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Phosphorus ppm ASTM D5185m 995 1541 909 779 Zinc ppm ASTM D5185m 1180 1823 1031 937 Sulfur ppm ASTM D5185m 2600 6160 2768 3358 CONTAMINANTS method limit/base current history1 hist Silicon ppm ASTM D5185m >25 18 16 12 Sodium ppm ASTM D5185m >25 18 16 12 Sodium ppm ASTM D5185m >20 52 18 16 12 Sodium ppm ASTM D5185m >20 52 147 85 INFRA-RED method limit/base current history1 hist Soot % % *ASTM D7844 >3 0.4 0.5 0.3 Nitration Abs/cm *ASTM D7624 >20 10.1 13.0 24.5 FLUID DEGRADATION method <thi< td=""><td>Magnesium</td><td>ppm</td><td>ASTM D5185m</td><td>950</td><th>857</th><td>739</td><td>748</td></thi<>	Magnesium	ppm	ASTM D5185m	950	857	739	748
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Nitration Abs/cm *ASTM D7624 >20 10.1 13.0 11.0 Sulfation Abs/.1mm *ASTM D7615 >30 23.0 30.0 24.5 FLUID DEGRADATION method limit/base current history1 hist Oxidation Abs/.1mm *ASTM D7414 >25 17.6 28.1 20.4	INFRA-RED		method	limit/base	current	history1	history2
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Oxidation Abs/.1mm *ASTM D7414 >25 17.6 28.1 20.4	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	30.0	24.5
	FLUID DEGRA		method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 52 4.2 5.4				>25			
	Base Number (BN)	mg KOH/g	ASTM D2896		5.2	4.2	5.4

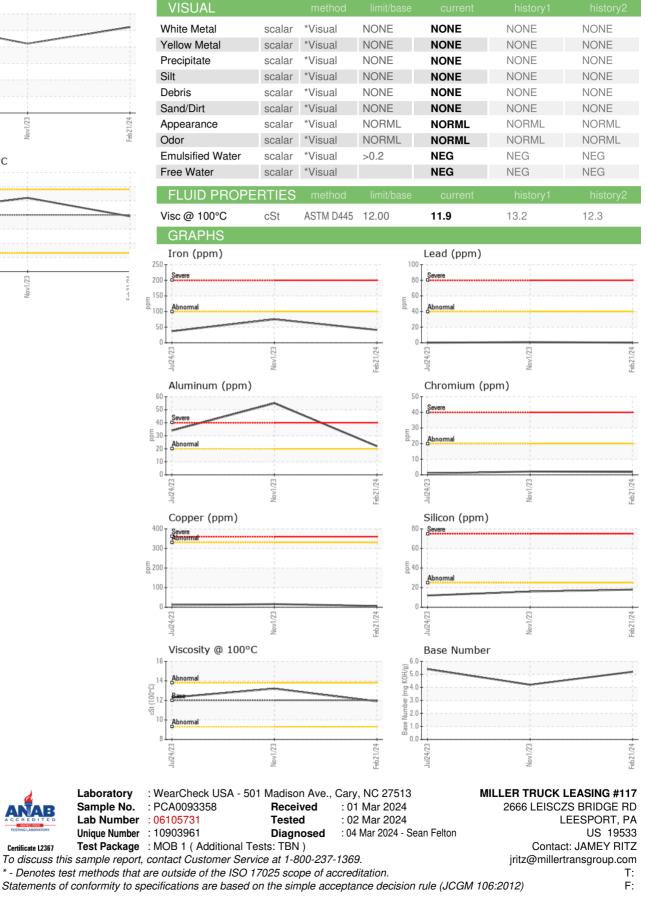


Abnorma

OIL ANALYSIS REPORT



VInv.1/22



Certificate L2367