

OIL ANALYSIS REPORT

Sample Rating Trend





Component Diesel Engine Fluid

PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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.

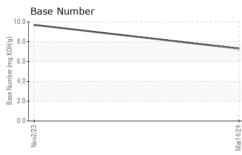
Fluid Condition

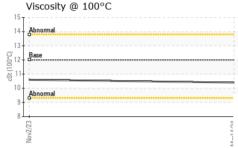
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Machine AgemlsClient Info3542115052Oil AgemlsClient Info00Oil ChangedClient InfoNot ChangdNot ChangdSample StatusImit/basecurrenthistory1history2FuelWC Method>5<1.0<1.0WaterWC Method>0.2NEGNEGGlycolWC Method>0.2NEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185m>1006332NickelppmASTM D5185m>2021NickelppmASTM D5185m>44<1<1NickelppmASTM D5185m>3000AluminumppmASTM D5185m>330159LeadppmASTM D5185m>1512VanadiumppmASTM D5185m>1512CadmiumppmASTM D5185m>15100ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m2920ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m2920Molybdenumppm<	GAL)			Nov2023	Mar2024		
Sample Date Client Info 14 Mar 2024 02 Nov 2023 Machine Age mis Client Info 35421 15052 Oil Age mis Client Info 0 0 0 Oil Changed Client Info Not Changd Not Changd Nor Changd Sample Status Client Info Not Changd Nor Changd	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Machine Age mls Client Info 35421 15052 Oil Age rils Client Info 0 0 Oil Changed Client Info Not Changd Not Changd Sample Status Imit/base current History! Water WC Method >5 <1.0 Glycol WC Method >0.2 NEG NEG Water WC Method >0.2 NEG NEG Ottomium ppm ASTM DS185m >100 63 32 Nickel ppm ASTM DS185m >20 2 1 Nickel ppm ASTM DS185m >20 21 12 Silver ppm ASTM DS185m >20 0 Auminum ppm ASTM DS185m >1 2 Copper ppm ASTM DS185m >1 2 -	Sample Number		Client Info		PCA0120636	PCA0110455	
Oil Age mls Client Info 0 0 Oil Changed Client Info Not Changd Not Changd Sample Status Imil/bass current history1 CONTAMINATION method imil/bass current history1 history2 Fuel WC Method >5 <1.0 Water WC Method >0.2 NEG NEG WetAR METALS method imil/base current history1 history2 Iron ppm ASTM D5185m >100 63 32 Nickel ppm ASTM D5185m >4 <1 Silver ppm ASTM D5185m >4 <1 1 Copper ppm ASTM D5185m >40 0 0 Cadmium ppm ASTM D5185m >4 <1 1 Cadmium ppm	Sample Date		Client Info		14 Mar 2024	02 Nov 2023	
One Changed Sample Status Client Info Not Changd NORMAL Not Changd NORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0	Machine Age	mls	Client Info		35421	15052	
Sample Status NORMAL NORMAL NORMAL CONTAMINATION method limil/base current history1 history2 Fuel WC Method >5 <1.0 <1.0 Water WC Method >0.2 NEG NEG Glycol WC Method NOR NEG NEG WEAR METALS method limil/base current history1 history2 Iron ppm ASTM D5185m >100 63 32 Nickel ppm ASTM D5185m >20 2 1 Nickel ppm ASTM D5185m >3 0 0 Aduminum ppm ASTM D5185m >20 21 1 Lead ppm ASTM D5185m >30 1 2 Vanadium ppm ASTM D5185m >1 2 Vanadium ppm	Oil Age	mls	Client Info		0	0	
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Calcium ppm ASTM D5185m 1050 1369 1234 Phosphorus ppm ASTM D5185m 995 889 981 Zinc ppm ASTM D5185m 1180 1100 1177 Sulfur ppm ASTM D5185m 2600 3210 2932 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 23 30 Sodium ppm ASTM D5185m >25 23 30 Potassium ppm ASTM D5185m >20 42 28 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.6 0.2 Nitration Abs/cm<*ASTM D7624 >20 10.2 6.6 Sulfation Abs/.1mm<*ASTM D7415 >30	Manganese	ppm	ASTM D5185m	0	6	5	
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CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>252330SodiumppmASTM D5185m51PotassiumppmASTM D5185m>204228INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>30.60.2NitrationAbs/cm*ASTM D7624>2010.26.6SulfationAbs/rm*ASTM D7614>3021.019.4FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2518.915.8	Zinc	ppm	ASTM D5185m	1180	1100	1177	
Silicon ppm ASTM D5185m >25 23 30 Sodium ppm ASTM D5185m 5 1 Potassium ppm ASTM D5185m >20 42 28 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.6 0.2 Nitration Abs/cm *ASTM D7624 >20 10.2 6.6 Sulfation Abs/tm *ASTM D7415 >30 21.0 19.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 18.9 15.8	Sulfur	ppm	ASTM D5185m	2600	3210	2932	
Sodium ppm ASTM D5185m 5 1 Potassium ppm ASTM D5185m >20 42 28 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.6 0.2 Nitration Abs/cm *ASTM D7624 >20 10.2 6.6 Sulfation Abs/.1mm *ASTM D7415 >30 21.0 19.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 18.9 15.8	CONTAMINAN	TS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 42 28 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.6 0.2 Nitration Abs/cm *ASTM D7624 >20 10.2 6.6 Sulfation Abs/.1mm *ASTM D7415 >30 21.0 19.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 18.9 15.8	Silicon	ppm	ASTM D5185m	>25	23	30	
INFRA-REDmethodlimit/basecurrenthistory1history2Soot %%*ASTM D7844>30.60.2NitrationAbs/cm*ASTM D7624>2010.26.6SulfationAbs/.1mm*ASTM D7415>3021.019.4FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2518.915.8	Sodium	ppm	ASTM D5185m		5	1	
Soot % % *ASTM D7844 >3 0.6 0.2 Nitration Abs/cm *ASTM D7624 >20 10.2 6.6 Sulfation Abs/.1mm *ASTM D7415 >30 21.0 19.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 18.9 15.8	Potassium	ppm	ASTM D5185m	>20	42	28	
Nitration Abs/cm *ASTM D7624 >20 10.2 6.6 Sulfation Abs/.1mm *ASTM D7615 >30 21.0 19.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 18.9 15.8	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 21.0 19.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 18.9 15.8	Soot %	%	*ASTM D7844	>3	0.6	0.2	
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 18.9 15.8	Nitration	Abs/cm	*ASTM D7624	>20	10.2	6.6	
Oxidation Abs/.1mm *ASTM D7414 >25 18.9 15.8	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	19.4	
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 7.3 9.7	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	15.8	
	Base Number (BN)	mg KOH/g	ASTM D2896		7.3	9.7	



OIL ANALYSIS REPORT







Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (201)528-7053

Certificate L2367