

OIL ANALYSIS REPORT

Sample Rating Trend



DIAGNOSIS

Contamination

Fluid Condition

the time in service.

Light fuel dilution occurring.

Wear

Machine Id 801071 Component Diesel Engine

Fluid

Resample at the next service interval to monitor.

All component wear rates are normal.

Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for

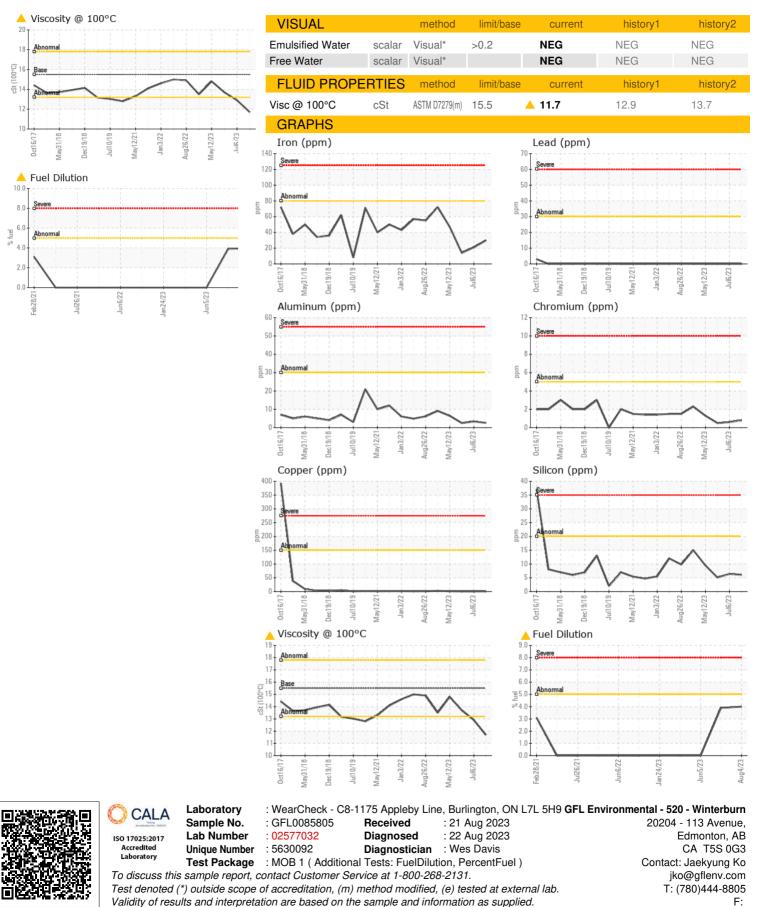
PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

Sample Number Client Info GFL0085805 GFL0085932 GFL0082932 GFL0082932 GFL0082932 GFL0082932 GFL0082932 GFL0082932 GFL0082932 GFL0082833 GSL0082932 GS	SYN BLEND 15W40	` '	lct2017 May20	18 Dec2018 Jul2019 May	y2021 Jan2022 Aug2022 May2023	0012023	
Sample Date Client Info 04 Aug 2023 13772 05 Jul 2023 305 Jul 202 05 Jul 2023 305 Jul 202 05 Jul 2023 304843 Dil Age hrs Client Info 13930 13772 304843 Dil Changed Client Info N/A N/A N/A N/A Sample Status method Imit/base current history1 history1 Glycol WC Method NEG NEG NEG NEG WEAR METALS method Imit/base current history1 history1 Glycol WC Method NEG NEG NEG NEG WEAR METALS method Imit/base current history1 history1 Vickel ppm ASTM D585(m) >2 <1	SAMPLE INFOR		method	limit/base	current	history1	history2
Machine Age hrs Client Info 13930 13772 304843 Dil Age hrs Client Info 0 0 0 0 Dil Age Krs Client Info N/A N/A N/A Sample Status Client Info MARORIMAL MARGINAL NORMAL CONTAMINATION method imit/base current history1 history1 Glycol WC Method method imit/base current history1 history1 Silvori ppm ASTM0516(m) >50 <1	Sample Number		Client Info		GFL0085805	GFL0085932	GFL007763
Dil Age hrs Client Info 0 0 0 Dil Changed Client Info N/A N/A N/A N/A Sample Status Client Info N/A ABNORMAL NARGINAL NORMAL CONTAMINATION method limit/base current history1 history1 Silycol WC Method NEG NEG NEG NEG WEAR METALS method limit/base current history1 history1 ron ppm ASTM 05180m >5 <1	Sample Date		Client Info		04 Aug 2023	06 Jul 2023	05 Jun 2023
Dil Changed Client Info N/A N/A N/A N/A Sample Status Image: Contramit Absorbed init/base current history1 Nictory Silycol WC Method Imit/base current history1 history1 Silycol Ppm ASTM 05155(m) >20 1 -1 -1 Kickel ppm ASTM 05155(m) >30 3 3 2 -1 Read ppm ASTM 05155(m) >30 0 0 0 0 Arandium ppm ASTM 05155(m) >5 0 0 0 0 0 Arandium ppm ASTM 05155(m) >10 0 0 0 0 0 0 <t< td=""><td>Machine Age</td><td>hrs</td><td>Client Info</td><td></td><td>13930</td><td>13772</td><td>304843</td></t<>	Machine Age	hrs	Client Info		13930	13772	304843
Sample Status method imit/base current history1 history1 CONTAMINATION wethod imit/base current history1 history1 Blycol WC Method method imit/base current history1 history1 Blycol WC Method imit/base current history1 history1 Contramine ppm ASTM 05185m >5 <1	Dil Age	hrs	Client Info		0	0	0
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ron ppm ASTM D5185(m) >80 30 21 14 Chromium ppm ASTM D5185(m) >5 <1	Glycol		WC Method		NEG	NEG	NEG
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Titanium ppm ASTM D5185(m) 0 0 0 0 Silver ppm ASTM D5185(m) >3 <1	Nickel		ASTM D5185(m)	>2	<1	<1	<1
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Magnesium ppm ASTM D5185(m) 1010 1060 1072 1008 Calcium ppm ASTM D5185(m) 1070 1158 1135 1105 Phosphorus ppm ASTM D5185(m) 1170 1128 1135 1060 Zinc ppm ASTM D5185(m) 1270 1275 1305 1223 Sulfur ppm ASTM D5185(m) 2060 2499 2518 2438 Lithium ppm ASTM D5185(m) 2060 2499 2518 2438 Lithium ppm ASTM D5185(m) 2060 2499 2518 2438 Lithium ppm ASTM D5185(m) 2060 2499 2518 2438 Solicon ppm ASTM D5185(m) >20 6 6 5 5 Solicon ppm ASTM D5185(m) >20 <1	Manganese		ASTM D5185(m)	1	<1	<1	<1
Calcium ppm ASTM D5185(m) 1070 1158 1135 1105 Phosphorus ppm ASTM D5185(m) 1150 1128 1135 1060 Zinc ppm ASTM D5185(m) 1270 1275 1305 1223 Sulfur ppm ASTM D5185(m) 2060 2499 2518 2438 Lithium ppm ASTM D5185(m) 20 6 6 5 Solicon ppm ASTM D5185(m) >20 6 6 5 Sodium ppm ASTM D5185(m) >20 <1	-				1060	1072	1008
Phosphorus ppm ASTM D5185(m) 1150 1128 1135 1060 Zinc ppm ASTM D5185(m) 1270 1275 1305 1223 Sulfur ppm ASTM D5185(m) 2060 2499 2518 2438 Lithium ppm ASTM D5185(m) 2060 2499 2518 2438 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185(m) >20 6 6 5 Sodium ppm ASTM D5185(m) >20 4 4 4 Potassium ppm ASTM D5185(m) >20 <1 1 <1 Fuel % ASTM D5185(m) >20 <1 1 <1 Sodium ppm ASTM D5185(m) >20 <1 1 <1 Fuel % ASTM D5185(m) >20 <1 1 <1 Sodot % % ASTM D7593*	•						
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Soot % % ASTM D7844* >3 0.9 0.5 0.4 Nitration Abs/cm ASTM D7624* >20 10.4 9.8 9.1 Sulfation Abs/.1mm ASTM D7415* >30 25.3 23.2 22.0 FLUID DEGRADATION method limit/base current history1 history Oxidation Abs/.1mm ASTM D7414* >25 22.5 21.6 19.8	Zinc Sulfur Lithium CONTAMINAN Silicon	ppm ppm ppm ppm JTS ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1150 1270 2060 limit/base >20 >20	1158 1128 1275 2499 <1 current 6 4 <1	1135 1135 2518 <1 history1 6 4 1	1060 1223 2438 <1 history2 5 4 <1
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Sulfation Abs/.1mm ASTM D7415* >30 25.3 23.2 22.0 FLUID DEGRADATION method limit/base current history1 history1 Oxidation Abs/.1mm ASTM D7414* >25 22.5 21.6 19.8	Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm yTS ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593*	1150 1270 2060 Iimit/base >20 >20 >5 Iimit/base	1158 1128 1275 2499 <1 current 6 4 <1 ▲ 4 <1 ▲ 4	1135 1135 2518 <1 history1 6 4 1 1 ▲ 3.9 history1	1060 1223 2438 <1 history2 5 4 <1 <1.0 history2
Dxidation Abs/.1mm ASTM D7414* >25 22.5 21.6 19.8	Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Fuel	ppm ppm ppm ppm JTS ppm ppm ppm ppm %	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593* method ASTM D7844*	1150 1270 2060 imit/base >20 >20 >20 >5 imit/base >3	1158 1128 1275 2499 <1 current 6 4 <1 ▲ 4 current 0.9	1135 1135 2518 <1 history1 6 4 1 ▲ 3.9 history1 0.5	1060 1223 2438 <1 history2 5 4 <1 <10 history2 0.4
Dxidation Abs/.1mm ASTM D7414* >25 22.5 21.6 19.8	Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Vitration	ppm ppm ppm ppm JTS ppm ppm ppm ppm %	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593* method ASTM D7844* ASTM D7624*	1150 1270 2060 imit/base >20 >20 >5 imit/base >3 >20	1158 1128 1275 2499 <1 current 6 4 <1 ▲ 4 current 0.9 10.4	1135 1135 2518 <1 history1 6 4 1 3.9 history1 0.5 9.8	1060 1223 2438 <1 history2 5 4 <1 <1.0 history2 0.4 9.1
	Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm % % % %	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593* ASTM D7593* ASTM D7624* ASTM D7624*	1150 1270 2060 imit/base >20 >20 >5 imit/base >3 >20 >3 >20	1158 1128 1275 2499 <1 current 6 4 <1 ▲ 4 current 0.9 10.4 25.3	1135 1135 2518 <1 6 4 1 3.9 history1 0.5 9.8 23.2	1060 1223 2438 <1 history2 5 4 <1 <1.0 history2 0.4 9.1
5100000ECEV (4EL CAU	Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRA	ppm ppm ppm ppm JTS ppm ppm ppm ppm % % Abs/cm Abs/1mm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593* Method ASTM D7844* ASTM D7624* ASTM D7415*	1150 1270 2060 imit/base >20 >20 >5 imit/base >3 >20 >30 imit/base	1158 1128 1275 2499 <1 current 6 4 <1 ▲ 4 current 0.9 10.4 25.3 current	1135 1135 2518 <1	1060 1223 2438 <1 history2 5 4 <1 <1.0 history2 0.4 9.1 22.0 history2

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