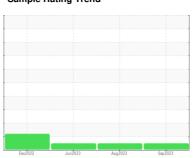


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
425075
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

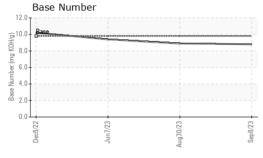
Fluid Condition

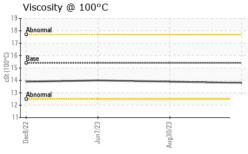
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION method limit/base current history Sample Number Client Info GFL0086869 GFL007254 Sample Date Client Info 08 Sep 2023 30 Aug 202 Machine Age mls Client Info 432173 432173 Oil Age mls Client Info 9101 0 Oil Observed Observed Not Observed Not Observed	
Sample Date Client Info 08 Sep 2023 30 Aug 202 Machine Age mls Client Info 432173 432173 Oil Age mls Client Info 9101 0	2 GFI 0068297
Machine Age mls Client Info 432173 432173 Oil Age mls Client Info 9101 0	Z 01 L0000201
Oil Age mls Client Info 9101 0	3 07 Jun 2023
3.	9101
Oil Channel Client lefe Channel Net Channel	9101
Oil Changed Client Info Changed Not Change	Changed
Sample Status NORMAL NORMAL	NORMAL
CONTAMINATION method limit/base current history	1 history2
Fuel WC Method >5 <1.0 <1.0	<1.0
Glycol WC Method NEG NEG	NEG
WEAR METALS method limit/base current history	1 history2
Iron ppm ASTM D5185m >80 17 8	6
Chromium ppm ASTM D5185m >5 <1	<1
Nickel ppm ASTM D5185m >2 0 0	0
Titanium ppm ASTM D5185m 0 <1	0
Silver ppm ASTM D5185m >3 0 0	0
Aluminum ppm ASTM D5185m >30 <1 5	<1
Lead ppm ASTM D5185m >30 0 0	0
Copper ppm ASTM D5185m >150 <1 <1	<1
Tin ppm ASTM D5185m >5 <1 0	<1
Vanadium ppm ASTM D5185m 0 <1	0
Cadmium ppm ASTM D5185m 0 0	0
ADDITIVES method limit/base current history	1 history2
Boron ppm ASTM D5185m 0 6 4	7
Barium ppm ASTM D5185m 0 0 0	0
Molybdenum ppm ASTM D5185m 60 62 58	63
Manganese ppm ASTM D5185m 0 <1 0	0
	942
Magnesium ppm ASTM D5185m 1010 1002 955	1093
Calcium ppm ASTM D5185m 1070 1176 1143	1039
Calcium ppm ASTM D5185m 1070 1176 1143 Phosphorus ppm ASTM D5185m 1150 1034 1000	1039 1251
Calcium ppm ASTM D5185m 1070 1176 1143 Phosphorus ppm ASTM D5185m 1150 1034 1000 Zinc ppm ASTM D5185m 1270 1263 1243	
Calcium ppm ASTM D5185m 1070 1176 1143 Phosphorus ppm ASTM D5185m 1150 1034 1000 Zinc ppm ASTM D5185m 1270 1263 1243	1251 3662
Calcium ppm ASTM D5185m 1070 1176 1143 Phosphorus ppm ASTM D5185m 1150 1034 1000 Zinc ppm ASTM D5185m 1270 1263 1243 Sulfur ppm ASTM D5185m 2060 3725 3613 CONTAMINANTS method limit/base current history:	1251 3662
Calcium ppm ASTM D5185m 1070 1176 1143 Phosphorus ppm ASTM D5185m 1150 1034 1000 Zinc ppm ASTM D5185m 1270 1263 1243 Sulfur ppm ASTM D5185m 2060 3725 3613 CONTAMINANTS method limit/base current history Silicon ppm ASTM D5185m >20 6 7	1251 3662 1 history2
Calcium ppm ASTM D5185m 1070 1176 1143 Phosphorus ppm ASTM D5185m 1150 1034 1000 Zinc ppm ASTM D5185m 1270 1263 1243 Sulfur ppm ASTM D5185m 2060 3725 3613 CONTAMINANTS method limit/base current history Silicon ppm ASTM D5185m >20 6 7	1251 3662 1 history2
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Calcium ppm ASTM D5185m 1070 1176 1143 Phosphorus ppm ASTM D5185m 1150 1034 1000 Zinc ppm ASTM D5185m 1270 1263 1243 Sulfur ppm ASTM D5185m 2060 3725 3613 CONTAMINANTS method limit/base current history Silicon ppm ASTM D5185m >20 6 7 Sodium ppm ASTM D5185m >20 2 3 INFRA-RED method limit/base current history	1251 3662 1 history2 4 <1 1
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Calcium ppm ASTM D5185m 1070 1176 1143 Phosphorus ppm ASTM D5185m 1150 1034 1000 Zinc ppm ASTM D5185m 1270 1263 1243 Sulfur ppm ASTM D5185m 2060 3725 3613 CONTAMINANTS method limit/base current history Silicon ppm ASTM D5185m >20 6 7 Sodium ppm ASTM D5185m >20 2 3 INFRA-RED method limit/base current history Soot % "ASTM D7844 >3 0.6 0.2	1251 3662 1 history2 4 <1 1 1 1 history2
Calcium ppm ASTM D5185m 1070 1176 1143 Phosphorus ppm ASTM D5185m 1150 1034 1000 Zinc ppm ASTM D5185m 1270 1263 1243 Sulfur ppm ASTM D5185m 2060 3725 3613 CONTAMINANTS method limit/base current history: Silicon ppm ASTM D5185m >20 6 7 Sodium ppm ASTM D5185m >20 2 3 INFRA-RED method limit/base current history: Soot % % *ASTM D7844 >3 0.6 0.2 Nitration Abs/cm *ASTM D7624 >20 6.0 5.6	1251 3662 1 history2 4 <1 1 1 1 history2 0.1 5.3 18.0
Calcium ppm ASTM D5185m 1070 1176 1143 Phosphorus ppm ASTM D5185m 1150 1034 1000 Zinc ppm ASTM D5185m 1270 1263 1243 Sulfur ppm ASTM D5185m 2060 3725 3613 CONTAMINANTS method limit/base current history Silicon ppm ASTM D5185m >20 6 7 Sodium ppm ASTM D5185m >20 2 3 INFRA-RED method limit/base current history Soot % % *ASTM D7844 >3 0.6 0.2 Nitration Abs/cm *ASTM D7624 >20 6.0 5.6 Sulfation Abs/.1mm *ASTM D7415 >30 18.0 17.4	1251 3662 1 history2 4 <1 1 1 1 history2 0.1 5.3 18.0



OIL ANALYSIS REPORT

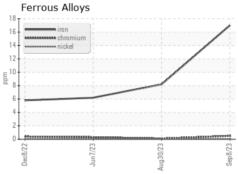


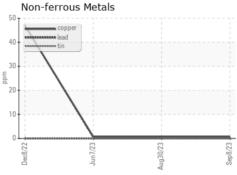


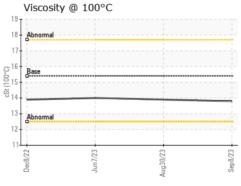
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

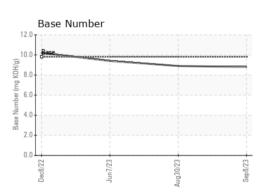
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	14.0	

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10645793 Test Package : FLEET

: GFL0086869 : 05949834

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 13 Sep 2023 : 15 Sep 2023 Diagnostician : Wes Davis

GFL Environmental - 419 - Metro Saginaw

6950 N Michigan Saginaw, MI US 48604 Contact: Jeremy Hines jhines@gflenv.com

T: (800)684-1277

* - 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)