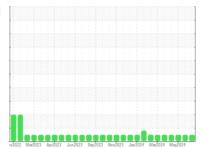


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
913005
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (12 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

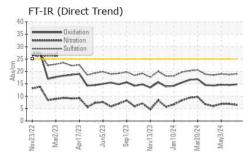
Fluid Condition

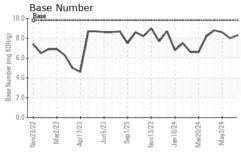
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

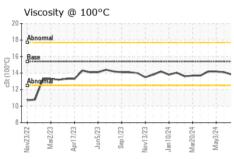
Sample Number Client Info GFL0118692 GFL0118660 GFL011 Sample Date Client Info 30 May 2024 07 May 2024 03 May Machine Age hrs Client Info 4721 4721 54546 Oil Age hrs Client Info 300 600 600 Oil Changed Client Info Not Changed Not Changed Not Changed Not Changed NorMAL Sample Status NORMAL NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 his Fuel WC Method >3.0 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG	2024 angd
Machine Age hrs Client Info 4721 4721 54546 Oil Age hrs Client Info 300 600 600 Oil Changed Client Info Not Changed Changed Not Changed Sample Status NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 his Fuel WC Method >3.0 <1.0 <1.0 <1.0	angd
Machine Age hrs Client Info 4721 4721 54546 Oil Age hrs Client Info 300 600 600 Oil Changed Client Info Not Changed Changed Not Changed Sample Status NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 his Fuel WC Method >3.0 <1.0 <1.0 <1.0	-
Oil Changed Sample Status Client Info Not Changd NORMAL Changed NORMAL Not Changed NORMAL CONTAMINATION method limit/base current history1 his Fuel WC Method >3.0 <1.0 <1.0 <1.0	-
Sample StatusNORMALNORMALNORMALNORMALCONTAMINATIONmethodlimit/basecurrenthistory1hisFuelWC Method>3.0<1.0<1.0<1.0	-
CONTAMINATION method limit/base current history1 his Fuel WC Method >3.0 <1.0 <1.0 <1.0	AL
CONTAMINATION method limit/base current history1 history1 Fuel WC Method >3.0 <1.0 <1.0 <1.0	
Fuel WC Method >3.0 <1.0 <1.0 <1.0	tory2
Water WC Method >0.2 NEG NEG NEG	
VValer VVO Method 20.2 NEG NEG	i
Glycol WC Method NEG NEG NEG	i
WEAR METALS method limit/base current history1 his	tory2
Iron ppm ASTM D5185m >120 0 8 8	
Chromium ppm ASTM D5185m >20 0 <1	
Nickel ppm ASTM D5185m >5 0 2 3	
Titanium ppm ASTM D5185m >2 0 0 <1	
Silver ppm ASTM D5185m >2 0 0 0	
Aluminum ppm ASTM D5185m >20 <1 1 2	
Lead ppm ASTM D5185m >40 0 0 <1	
Copper ppm ASTM D5185m >330 <1	
Tin ppm ASTM D5185m >15 0 1 1	
Vanadium ppm ASTM D5185m 0 0 <1	
The second secon	toru
· · · · · · · · · · · · · · · · · · ·	tory2
Boron ppm ASTM D5185m 0 0 1 0	
Barium ppm ASTM D5185m 0 0 0 2	
Molybdenum ppm ASTM D5185m 60 59 59 63	
Manganese ppm ASTM D5185m 0 0 1 <1	
Magnesium ppm ASTM D5185m 1010 989 986 948	
	7
Calcium ppm ASTM D5185m 1070 1104 1070 1077	
Phosphorus ppm ASTM D5185m 1150 1072 1026 1075	5
Phosphorus ppm ASTM D5185m 1150 1072 1026 1075 Zinc ppm ASTM D5185m 1270 1266 1251 1192	2
Phosphorus ppm ASTM D5185m 1150 1072 1026 1075 Zinc ppm ASTM D5185m 1270 1266 1251 1192 Sulfur ppm ASTM D5185m 2060 3619 3389 3176	2
Phosphorus ppm ASTM D5185m 1150 1072 1026 1075 Zinc ppm ASTM D5185m 1270 1266 1251 1192 Sulfur ppm ASTM D5185m 2060 3619 3389 3176	2
Phosphorus ppm ASTM D5185m 1150 1072 1026 1075 Zinc ppm ASTM D5185m 1270 1266 1251 1192 Sulfur ppm ASTM D5185m 2060 3619 3389 3176 CONTAMINANTS method limit/base current history1 his Silicon ppm ASTM D5185m >25 1 4 4	5 2 3
Phosphorus ppm ASTM D5185m 1150 1072 1026 1075 Zinc ppm ASTM D5185m 1270 1266 1251 1192 Sulfur ppm ASTM D5185m 2060 3619 3389 3176 CONTAMINANTS method limit/base current history1 his Silicon ppm ASTM D5185m >25 1 4 4 Sodium ppm ASTM D5185m 3 3 <1	5 2 3
Phosphorus ppm ASTM D5185m 1150 1072 1026 1075 Zinc ppm ASTM D5185m 1270 1266 1251 1192 Sulfur ppm ASTM D5185m 2060 3619 3389 3176 CONTAMINANTS method limit/base current history1 his Silicon ppm ASTM D5185m >25 1 4 4	5 2 3
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Phosphorus ppm ASTM D5185m 1150 1072 1026 1075 Zinc ppm ASTM D5185m 1270 1266 1251 1192 Sulfur ppm ASTM D5185m 2060 3619 3389 3176 CONTAMINANTS method limit/base current history1 his Silicon ppm ASTM D5185m >25 1 4 4 Sodium ppm ASTM D5185m 3 3 <1 Potassium ppm ASTM D5185m >20 <1 0 3	tory2
Phosphorus ppm ASTM D5185m 1150 1072 1026 1075 Zinc ppm ASTM D5185m 1270 1266 1251 1192 Sulfur ppm ASTM D5185m 2060 3619 3389 3176 CONTAMINANTS method limit/base current history1 his Silicon ppm ASTM D5185m >25 1 4 4 Sodium ppm ASTM D5185m 3 3 <1	tory2
Phosphorus ppm ASTM D5185m 1150 1072 1026 1078 Zinc ppm ASTM D5185m 1270 1266 1251 1192 Sulfur ppm ASTM D5185m 2060 3619 3389 3176 CONTAMINANTS method limit/base current history1 his Silicon ppm ASTM D5185m >25 1 4 4 4 Sodium ppm ASTM D5185m 3 3 <1	tory2
Phosphorus ppm ASTM D5185m 1150 1072 1026 1078 Zinc ppm ASTM D5185m 1270 1266 1251 1192 Sulfur ppm ASTM D5185m 2060 3619 3389 3176 CONTAMINANTS method limit/base current history1 his Silicon ppm ASTM D5185m >25 1 4 4 4 Sodium ppm ASTM D5185m 3 3 <1	tory2
Phosphorus ppm ASTM D5185m 1150 1072 1026 1078 Zinc ppm ASTM D5185m 1270 1266 1251 1192 Sulfur ppm ASTM D5185m 2060 3619 3389 3176 CONTAMINANTS method limit/base current history1 his Silicon ppm ASTM D5185m >25 1 4 4 4 Sodium ppm ASTM D5185m 3 3 <1	tory2



OIL ANALYSIS REPORT



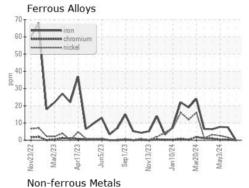




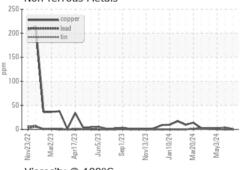
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

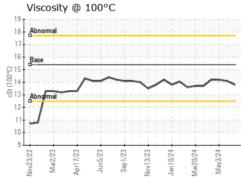
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	14.1	14.2

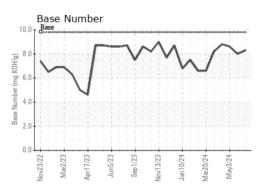
GRAPHS















Certificate 12367

Laboratory Sample No.

: GFL0118692 Lab Number : 06197311 Unique Number : 11059434 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jun 2024

Tested : 03 Jun 2024 Diagnosed : 03 Jun 2024 - Wes Davis

GFL Environmental - 166 - Phenix City 18 Old Brickyard Rd Phenix City, AL

US 36869 Contact: DEAN PEACE JR dean.peace@gflenv.com

Submitted By: DEAN PEACE JR

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

Report Id: GFL166 [WUSCAR] 06197311 (Generated: 06/03/2024 18:53:16) Rev: 1

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