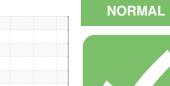


OIL ANALYSIS REPORT

Sample Rating Trend





Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

Machine Id

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

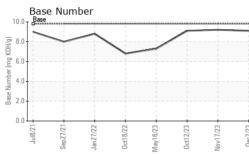
Fluid Condition

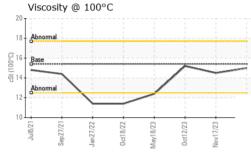
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0105664	GFL0101558	GFL0093126
Sample Date		Client Info		07 Dec 2023	17 Nov 2023	12 Oct 2023
Machine Age	hrs	Client Info		27120	26990	26901
Oil Age	hrs	Client Info		26990	26901	25986
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	0.9
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	27	30	10
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	3
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	2	<1
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	5
Barium	ppm	ASTM D5185m	0	0	9	0
Molybdenum	ppm	ASTM D5185m	60	63	65	65
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1081	970	1037
Calcium	ppm	ASTM D5185m	1070	1225	1156	1187
Phosphorus	ppm	ASTM D5185m	1150	1006	1069	1019
Zinc	ppm	ASTM D5185m	1270	1405	1275	1382
Sulfur	ppm	ASTM D5185m	2060	3498	3147	3047
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	4
Sodium	ppm	ASTM D5185m		3	1	2
Potassium	ppm	ASTM D5185m	>20	0	3	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.9	7.7	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	19.8	21.3
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	16.3	18.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.1	9.2	9.1



OIL ANALYSIS REPORT





		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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	15.0	14.5	15.2
GRAPHS						
Ferrous Alloys						
o- iron						
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0		~				
5		/				
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5		\bigvee				
5						
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Jul8/21 Sep27/21 Jan27/22	Oct18/22 May18/23	0ct12/23 Nov17/23	Dec7/23			
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Non-ferrous Meta	0ct18/22 May18/23	0 00t12/2 0 0	Deci/23			
Non-ferrous Meta	0ct18/22 May18/23		Dec1/23	Base Number		
Non-ferrous Meta	0ct18/22 May18/23		Dec1/23			
Non-ferrous Meta	0ct18/22 May18/23		0.01			
Non-ferrous Meta	0ct18/22 May18/23		Dec//23			

Number (4 (Base

Dec7/23 -

: 11 Dec 2023

: 12 Dec 2023

Nov17/23

0.0

Jul8/21

Jan27/22 -

Sep27/21

0ct18/22



Test Package : FLEET Certificate L2367 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)

0ct18/22

Mav18/23

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

Received

Diagnosed

Jan27/22

0ct12/23

Diagnostician : Wes Davis

16 cSt (100°C)

12

10

Unique Number : 10780070

Laboratory

Sample No.

Lab Number

Jul8/21

Sep27/21

: GFL0105664

: 06030279

Vlav18/23

Nov17/23 -

Dec7/23

0ct12/23