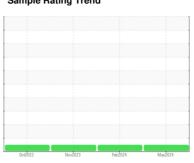


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 929115 Component

Diesel Engine

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.

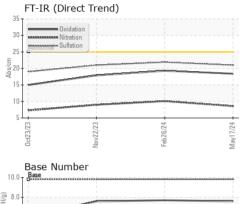
Fluid Condition

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

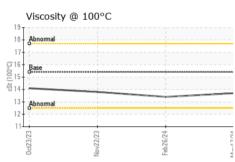
GAL)		0ct2023	3 Nov2023	Feb 2024 M	ay2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0119867	GFL0097804	GFL0097810
Sample Date		Client Info		17 May 2024	26 Feb 2024	22 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		515	510	589
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
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	>100	18	23	29
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	4	3
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	1	2	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	10	4	2
Barium	ppm	ASTM D5185m	0	0	0	1
Molybdenum	ppm	ASTM D5185m	60	60	56	68
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	944	880	1086
Calcium	ppm	ASTM D5185m	1070	1049	953	1176
Phosphorus	ppm	ASTM D5185m	1150	981	1008	1115
Zinc	ppm	ASTM D5185m	1270	1249	1210	1358
Sulfur	ppm	ASTM D5185m	2060	3281	2907	3731
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	6	8
Sodium	ppm	ASTM D5185m		6	23	8
Potassium	ppm	ASTM D5185m	>20	4	4	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	1.2	1
Nitration	Abs/cm	*ASTM D7624	>20	8.6	10.1	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	21.9	21.0
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	19.3	17.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.6	7.7	7.6



OIL ANALYSIS REPORT



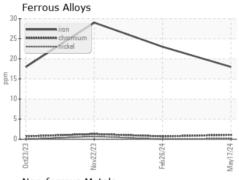
10.0 T Base			
0.8.0			
8.0 4.0 kg Wmper (mg KOH/g)			
4.0-			
8 2.0			
0.0			
0ct23/23	Nov22/23	Feb26/24	ACC T A.M.
Viscosity	@ 100°C		

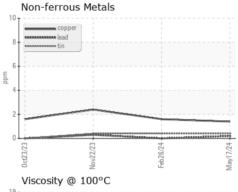


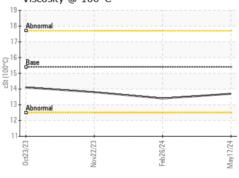
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

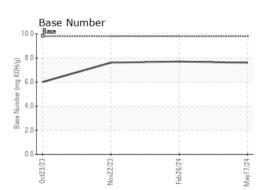
FLUID PROPERTIES		method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.4	13.8

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06188537 Unique Number : 11045289 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0119867

Received : 22 May 2024 **Tested** Diagnosed

: 24 May 2024 : 24 May 2024 - Wes Davis

GFL Environmental - 958 - Tri County HC Morton 1090 W. Jefferson St.

Morton, IL US 61550

Contact: Bryan Link blink@gflenv.com T:

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)

F: