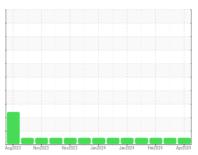


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
929144
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

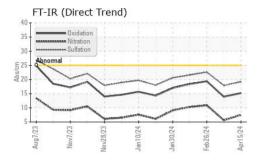
Fluid Condition

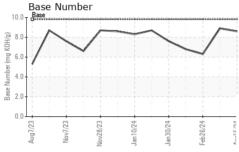
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

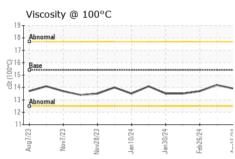
GAL)		Aug2023	Nov2023 Nov2023	Jan2024 Jan2024 Feb2024	AprZ024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111951	GFL0111967	GFL0107956
Sample Date		Client Info		15 Apr 2024	06 Mar 2024	26 Feb 2024
Machine Age	hrs	Client Info		3907	3638	3568
Oil Age	hrs	Client Info		0	600	600
Oil Changed		Client Info		Not Changd	Changed	Changed
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	>110	11	5	42
Chromium	ppm	ASTM D5185m	>4	<1	<1	3
Nickel	ppm	ASTM D5185m	>2	0	<1	1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	2	7
Lead	ppm	ASTM D5185m	>45	0	0	0
Copper	ppm		>85	<1	0	3
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	3	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	65	57	71
Manganese	ppm		0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	976	946	1070
Calcium	ppm	ASTM D5185m	1070	1166	1001	1219
Phosphorus	ppm	ASTM D5185m	1150	1174	1055	1153
Zinc	ppm	ASTM D5185m	1270	1319	1260	1420
Sulfur	ppm	ASTM D5185m	2060	3164	3156	3229
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	6	4	7
Sodium	ppm	ASTM D5185m		3	2	7
Potassium	ppm	ASTM D5185m	>20	4	3	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.2	8.0
Nitration	Abs/cm	*ASTM D7624	>20	7.5	5.6	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	17.9	22.6
FLUID DEGRAI	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	13.9	19.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	8.9	6.3



OIL ANALYSIS REPORT



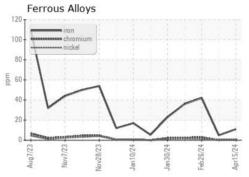


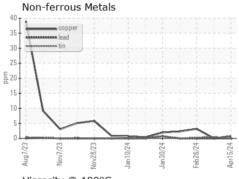


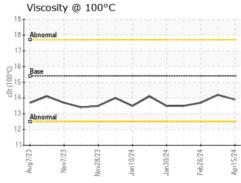
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

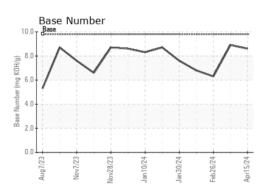
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.2	13.7

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0111951 Lab Number : 06151800 Unique Number : 10981878

Test Package : FLEET

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

: 17 Apr 2024 : 18 Apr 2024 Diagnosed : 18 Apr 2024 - Wes Davis

GFL Environmental - 892 - Pauls Valley Hauling 1910 S CHICKASAW STREET

Pauls Valley, OK US 73075

Contact: Tony Graham tgraham2@wcamerica.com

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)

T:

F: