

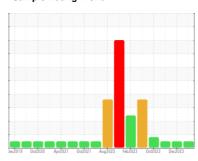
OIL ANALYSIS REPORT

Sample Rating Trend

Area (JS6351)
11300
Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (18 QTS)





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

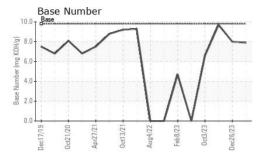
Fluid Condition

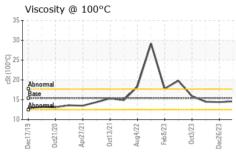
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR	MATION	method	limit/base	Clurront	history1	history2
	MATION		— IIIIII/base	current	history1	•
Sample Number		Client Info		GFL0112898	GFL0088501	GFL0088533
Sample Date		Client Info		03 Apr 2024	26 Dec 2023	10 Oct 2023
Machine Age	hrs	Client Info		4317	4317	4317
Oil Age	hrs	Client Info		238	238	4317
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	20	25	6
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	2
Lead	ppm	ASTM D5185m	>40	2	2	2
Copper	ppm	ASTM D5185m		4	4	<1
Tin	ppm	ASTM D5185m	>15	<1	<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	2	6
Barium	ppm	ASTM D5185m	0	0	9	0
Molybdenum	ppm	ASTM D5185m	60	64	71	58
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1018	1036	950
Calcium	ppm	ASTM D5185m	1070	1143	1237	1092
Phosphorus	ppm	ASTM D5185m	1150	1102	1068	1086
Zinc	ppm	ASTM D5185m	1270	1360	1378	1301
Sulfur	ppm	ASTM D5185m	2060	3463	2961	3242
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	7	3
Sodium	ppm	ASTM D5185m	-	3	0	2
Potassium	ppm	ASTM D5185m	>20	3	12	10
INFRA-RED	1-1-	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.8	1.9	0.8
Nitration	Abs/cm	*ASTM D7624		14.4	14.2	7.1
			>20			
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.7	24.3	19.9
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.8	22.6	15.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	8.0	9.7



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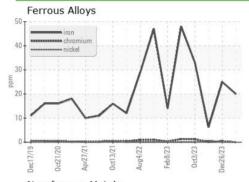


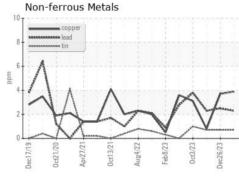


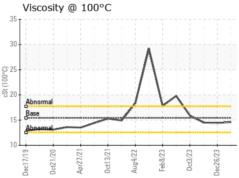
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

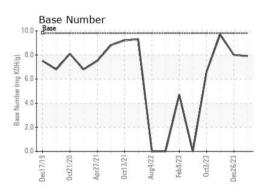
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.6	14.4	14.5

GRAPHS













Certificate L2367

Report Id: GFL017 [WUSCAR] 06137064 (Generated: 04/03/2024 16:49:02) Rev: 1

Laboratory Sample No.

Test Package : FLEET

: GFL0112898 Lab Number : 06137064 Unique Number: 10956529

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Apr 2024 **Tested**

: 03 Apr 2024 Diagnosed : 03 Apr 2024 - Wes Davis

GFL Environmental - 017 - Durham

148 Stone Park Court Durham, NC

US 27703 Contact: William Russel william.russell@gflenv.com

F: (919)598-1852

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)

Submitted By: Ren - William Russel

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