

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id 10714

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (28 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

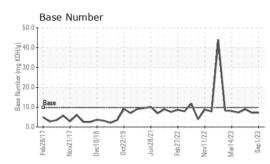
Fluid Condition

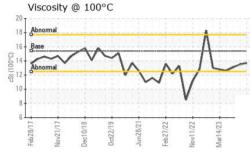
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091394	GFL0088700	GFL0086117
Sample Date		Client Info		01 Sep 2023	16 Aug 2023	20 Jul 2023
Machine Age	hrs	Client Info		822	728	17738
Oil Age	hrs	Client Info		624	530	835
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	61	43	22
Chromium	ppm	ASTM D5185m	>5	1	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	7	5	3
Lead	ppm	ASTM D5185m	>25	2	2	0
Copper	ppm	ASTM D5185m	>100	256	A 215	13
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	21	25	45
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	66	63	65
Manganese	ppm	ASTM D5185m	0	1	2	1
Magnesium	ppm	ASTM D5185m	1010	793	776	770
-	ppm	ASTM D5185m	1070	1267	1217	1212
Phosphorus	ppm	ASTM D5185m	1150	721	728	696
Zinc	ppm	ASTM D5185m	1270	919	905	859
Sulfur	ppm	ASTM D5185m			2684	2800
	ppin	AGTIVI DJTOJII	2000	2601	2004	
CONTAMINANT		method	limit/base	current	history1	history2
			limit/base			history2 13
CONTAMINANT Silicon	S	method	limit/base	current	history1	
CONTAMINANT Silicon	S ppm	method ASTM D5185m	limit/base >25	current 17	history1 14	13
CONTAMINANT Silicon Sodium	S ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >25	current 17 39	history1 14 16	13 14
CONTAMINANT Silicon Sodium Potassium INFRA-RED	S ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20	current 17 39 6	history1 14 16 8	13 14 5
CONTAMINANT Silicon Sodium Potassium INFRA-RED Soot %	S ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >25 >20 limit/base >6	current 17 39 6 current	history1 14 16 8 history1	13 14 5 history2
CONTAMINANT Silicon Sodium Potassium INFRA-RED Soot %	S ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >25 >20 limit/base >6 >20	current 17 39 6 current 1.6	history1 14 16 8 history1 1.3	13 14 5 history2 0.8
CONTAMINANT Silicon Sodium Potassium INFRA-RED Soot % Nitration	S ppm ppm ppm % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	limit/base >25 >20 limit/base >6 >20	current 17 39 6 current 1.6 10.6	history1 14 16 8 history1 1.3 9.3	13 14 5 history2 0.8 8.0
CONTAMINANT Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAD	S ppm ppm ppm % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >25 >20 limit/base >6 >20 >30 limit/base	current 17 39 6 current 1.6 10.6 20.3	history1 14 16 8 history1 1.3 9.3 20.4	13 14 5 history2 0.8 8.0 20.1

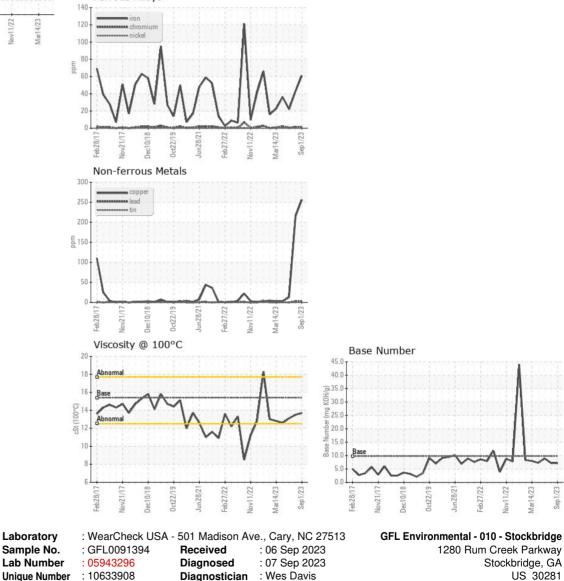


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.5	13.1
GRAPHS						
Ferrous Alloys						





 Certificate L2367
 Test Package
 : FLEET

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

Contact: JOSHUA TINKER

joshuatinker@gflenv.com

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