

OIL ANALYSIS REPORT

Sample Rating Trend





Area {UNASSIGNED} Machine Id 933045 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 GAL)

SAMPLE INFOF Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	RMATION	method				
Sample Date Machine Age Oil Age Oil Changed		method	limit/base	current	history1	history
Machine Age Oil Age Oil Changed		Client Info		GFL0094352	GFL0088754	GFL008873
Oil Age Oil Changed		Client Info		15 Sep 2023	05 Sep 2023	16 Aug 202
Oil Changed	hrs	Client Info		811	690	517
•	hrs	Client Info		121	690	517
Sample Status		Client Info		Not Changd	Changed	Not Change
				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	LS	method	limit/base	current	history1	history
Iron	ppm	ASTM D5185m	>90	20	11	60
Chromium	ppm	ASTM D5185m	>20	<1	0	1
Nickel	ppm	ASTM D5185m	>2	<1	0	2
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	5	18
Lead	ppm	ASTM D5185m	>40	0	<1	2
Copper	ppm	ASTM D5185m		4	2	17
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Vanadium	ppm	ASTM D5185m	210	<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history
Boron	ppm	ASTM D5185m	0	12	18	14
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	58	51
Manganese	ppm	ASTM D5185m	0	3	3	15
Magnesium	ppm	ASTM D5185m	1010	911	849	787
Calcium	ppm	ASTM D5185m	1070	1213	1119	1153
Phosphorus	ppm	ASTM D5185m	1150	982	903	655
Zinc	ppm	ASTM D5185m	1270	1195	1136	916
Sulfur	ppm	ASTM D5185m	2060	3578	3393	2609
	NTS	method	limit/base	current	history1	history
CONTAMINAN		ASTM D5185m	>25	8	8	35
CONTAMINA! Silicon	ppm					
	ppm ppm	ASTM D5185m		2	1	6
Silicon		ASTM D5185m ASTM D5185m	>20	2 18	1 14	6 70
Silicon Sodium	ppm		>20 limit/base			70
Silicon Sodium Potassium	ppm	ASTM D5185m	limit/base	18	14	70
Silicon Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185m method	limit/base	18 current	14 history1	70 history
Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm	ASTM D5185m method *ASTM D7844	limit/base >6 >20	18 current 0.1	14 history1 0	70 history 0
Silicon Sodium Potassium INFRA-RED Soot % Nitration	% Abs/cm Abs/1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >6 >20	18 current 0.1 6.1	14 history1 0 5.6	70 history 0 11.0 21.6
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >6 >20 >30 limit/base	18 current 0.1 6.1 17.1	14 history1 0 5.6 16.4	70 history 0 11.0

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

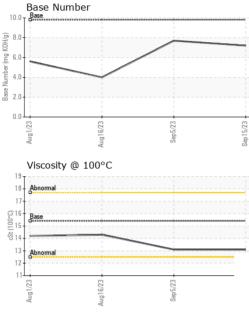
There is no indication of any contamination in the oil.

Fluid Condition

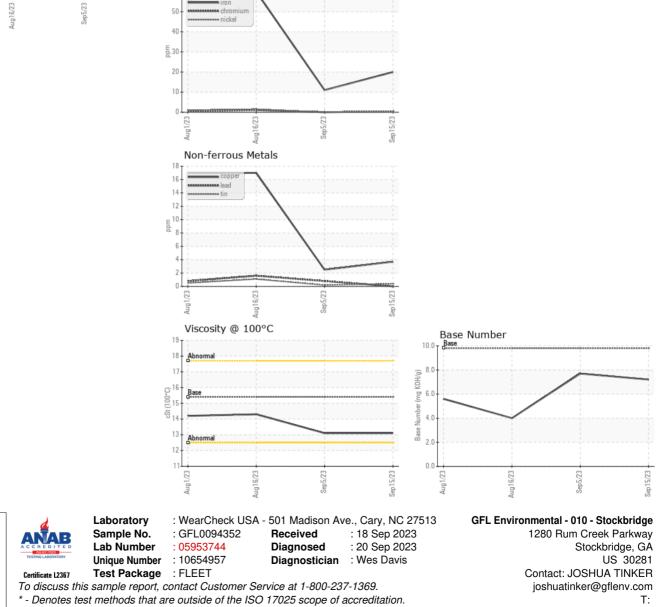
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



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	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.1	14.3
GRAPHS						
Ferrous Alloys						
50 iron						
50 - chromium						



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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