

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 727111-28 Component

Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- LT

ON SHP 15W40 (Aug2021 Dec2	121 Apr20122 May2022 Nov20	122 Dez2022 Maz2021 Jun2021 Aug	23 Nev2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0058126	GFL0058044	GFL0082539
Sample Date		Client Info		06 Nov 2023	28 Aug 2023	05 Jun 2023
Machine Age	hrs	Client Info		20841	20502	20091
Oil Age	hrs	Client Info		339	550	139
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	6	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	12	15	5
Chromium	ppm	ASTM D5185m	>5	1	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	5	<1
Lead	ppm	ASTM D5185m	>30	1	<1	<1

Fluid Condition

Contamination

Recommendation

Wear

oil.

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

There is no indication of any contamination in the

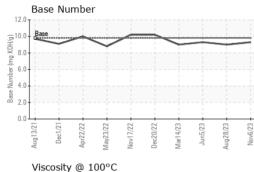
Resample at the next service interval to monitor.

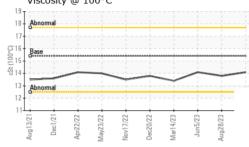
All component wear rates are normal.

Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	12	15	5
Chromium	ppm	ASTM D5185m	>5	1	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	5	<1
Lead	ppm	ASTM D5185m	>30	1	<1	<1
Copper	ppm	ASTM D5185m	>150	1	<1	1
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	4	6
Barium	ppm	ASTM D5185m	0	5	0	2
Molybdenum	ppm	ASTM D5185m	60	71	66	63
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	1077	1074	869
Calcium	ppm	ASTM D5185m	1070	1220	1258	1105
Phosphorus	ppm	ASTM D5185m	1150	1243	1161	1025
Zinc	ppm	ASTM D5185m	1270	1371	1430	1216
Sulfur	ppm	ASTM D5185m	2060	3457	3971	3338
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4	3	3
Sodium	ppm	ASTM D5185m		0	6	<1
Potassium	ppm	ASTM D5185m	>20	2	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.4	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.9	6.6	6.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	19.4	18.1
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	14.4	13.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.3	9.0	9.3
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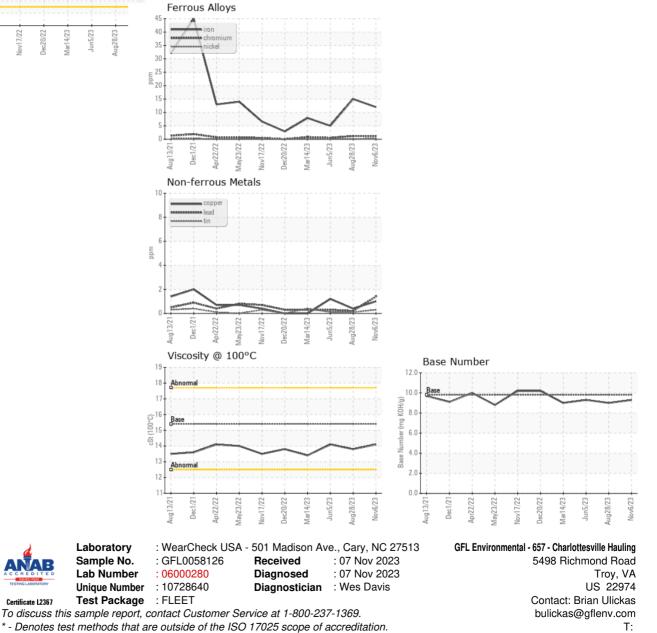


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	14.1	13.8	14.1
GRAPHS						



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

Submitted By: TECHNICIAN ACCOUNT

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