

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (38 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.

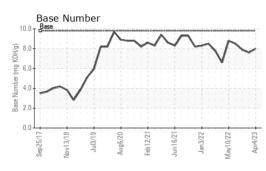
Fluid Condition

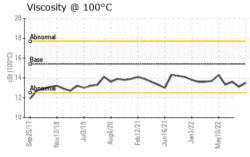
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

TS)		p2017 Nov20	18 Jul2019 Aug2020	Feb2021 Jun2021 Jun2022 Mi		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0071581	GFL0053150	GFL0061681
Sample Date		Client Info		04 Apr 2023	13 Mar 2023	21 Nov 2022
Machine Age	hrs	Client Info		15774	15774	15774
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
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lron Chromium	ppm	ASTM D5185m ASTM D5185m	>165 >5	15	17 <1	20 <1
Nickel	ppm	ASTM D5185m	>0 >4	<1 0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm ppm	ASTM D5185m		3	3	4
_ead	ppm	ASTM D5185m	>150	-3 <1	0	2
Copper	ppm	ASTM D5185m		<1	<1	1
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
√anadium	ppm	ASTM D5185m	20	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	11	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	10	4
Barium	ppm	ASTM D5185m	0	3 <1	0	0
Molybdenum	ppm	ASTM D5185m	60	71	60	66
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1105	826	882
Calcium	ppm	ASTM D5185m	1070	1243	1111	1187
Phosphorus	ppm	ASTM D5185m	1150	1194	927	1027
Zinc	ppm	ASTM D5185m	1270	1469	1096	1243
Sulfur	ppm	ASTM D5185m	2060	4057	3314	3532
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	6	6	8
Sodium	ppm	ASTM D5185m		5	5	2
Potassium	ppm	ASTM D5185m	>20	2	<1	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.4	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.0	11.0
Sulfation	Abs/.1mm	*ASTM D7415		20.0	19.9	22.7
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	15.6	18.4
Base Number (BN)	ma KOH/a	ASTM D2896	9.8	8.0	7.6	7.9

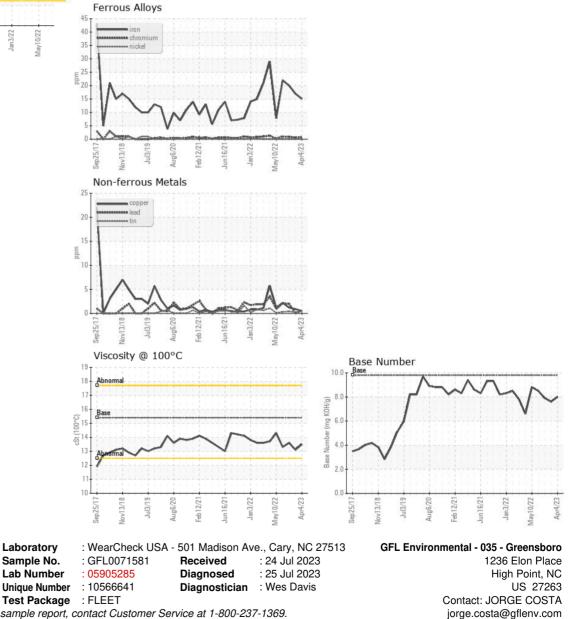


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	13.5	13.1	13.6
GRAPHS						



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)

Certificate L2367

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