

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id 10578

Component

Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (56 QT

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.

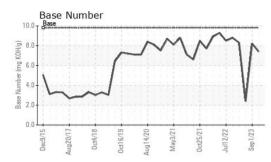
Fluid Condition

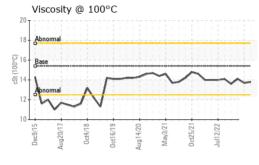
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

RTS)		2015 Aug201	7 Ocz2018 Ocz2019 A	ug2020 May2021 Oct202 Ju20	ZZ 597/023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Oil Age Oil Changed	hrs hrs	Client Info Client Info Client Info Client Info Client Info		GFL0093755 29 Dec 2023 13970 0 Changed	GFL0093736 01 Sep 2023 13391 0 Changed	GFL0050788 03 May 2023 5305 1235 Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel Water Glycol		WC Method WC Method WC Method	>3.0 >0.2	<1.0 NEG NEG	<1.0 NEG NEG	<1.0 NEG NEG
WEAR METAL	S	method	limit/base	current	history1	history2
lron Chromium Nickel	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>75 >5 >4	34 2 <1	40 4 0	23 2 0
Titanium Silver Aluminum	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>2	<1 0 3	0 0 2	0 0 4
Lead Copper Tin	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >100 >4	1 1 <1	0 <1 <1	0 <1 0
Vanadium Cadmium	ppm ppm	ASTM D5185m ASTM D5185m	1	0 0	0	<1 0
ADDITIVES		method	limit/base		history1	history2
Boron Barium Molybdenum	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60	4 10 58	6 0 58	4 0 55
Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1010	0 855 1009	<1 879 1086	1 563 1583
Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1150 1270 2060	1106 1163 3287	1011 1211 3452	693 989 2709
CONTAMINAN		method	limit/base		history1	history2
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m		9 10	14 13	4 8
Potassium	ppm	ASTM D5185m	>20	2	0	5
INFRA-RED		method	limit/base	current	history1	history2
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>6 >20 >30	0.7 9.8 21.5	0.5 8.6 18.4	0 11.0 22.7
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.8	17.5 7.4	13.6 8.2	18.3 ▲ 2.4

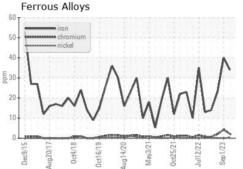


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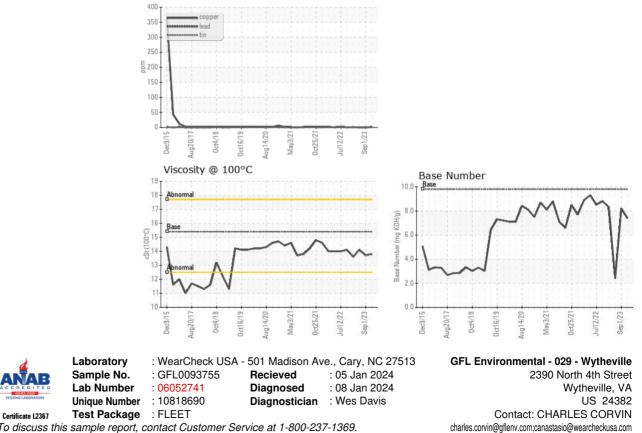




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	13.8	13.7	14.1
GRAPHS						



Non-ferrous Metals



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: CHARLES CORVIN

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T: (276)223-4476

F: (276)223-1283