

OIL ANALYSIS REPORT

Sample Number

hrs

hrs

Sample Date

Machine Age

Oil Changed

Sample Status

CONTAMINATION

Oil Age

Water

Sample Rating Trend

Machine Ic 427092-402367

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected 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.



Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	6	27	12
Chromium	ppm	ASTM D5185m	>20	<1	1	0
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		9	27	17
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	4	2
Lead	ppm	ASTM D5185m	>40	<1	1	0
Copper	ppm	ASTM D5185m	>330	<1	<1	0
Tin	ppm	ASTM D5185m	>15	2	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0

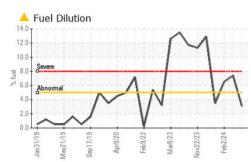
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	9	24	18
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	52	73	46
Manganese	ppm	ASTM D5185m	0	0	<1	0
Magnesium	ppm	ASTM D5185m	1010	927	1321	871
Calcium	ppm	ASTM D5185m	1070	1134	1738	1148
Phosphorus	ppm	ASTM D5185m	1150	1029	1570	1030
Zinc	ppm	ASTM D5185m	1270	1256	1922	1215
Sulfur	ppm	ASTM D5185m	2060	3789	5262	3212

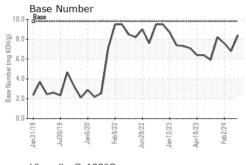
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	6	6
Sodium	ppm	ASTM D5185m		3	8	4
Potassium	ppm	ASTM D5185m	>20	2	3	1
Fuel	%	ASTM D3524	>5	A 3.1	A 7.4	6 .5

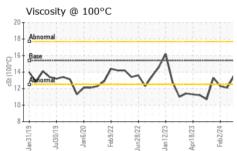
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.3	10.1	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	21.0	19.9
FLUID DEGRADATION method limit/base				current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	18.3	16.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	6.8	7.6



OIL ANALYSIS REPORT





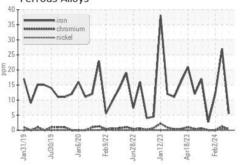


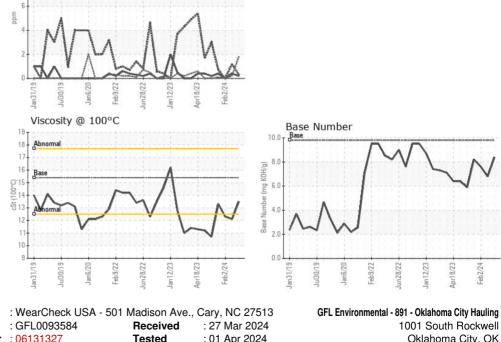
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	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	▲ 12.1	12.3
GRAPHS						

Ferrous Alloys

Non-ferrous Metals

10





Laboratory Sample No. Lab Number : 06131327 Tested : 01 Apr 2024 Oklahoma City, OK Unique Number : 10950792 Diagnosed : 01 Apr 2024 - Wes Davis US 73128 Test Package : FLEET (Additional Tests: PercentFuel) Contact: Andy Smith Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. andrew.smith@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (405)306-1651 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Page 2 of 2

F: