

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area (YA163853) Machine Io 10617 Diesel Engine

PETRO CANADA DURON SHP 15W40 (5 GAL)





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.

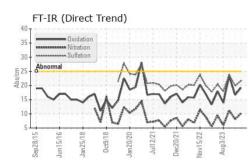
Fluid Condition

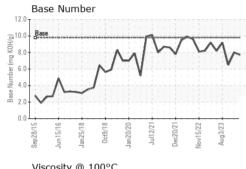
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

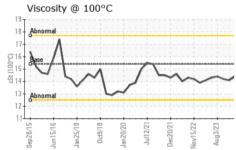
Sample Date Machine Age Oil Age Oil Changed	hrs hrs	Client Info Client Info		16 Jul 2024	21 May 2024	23 Jan 2024
Oil Age Oil Changed		Client Info				
Oil Changed	hrs			10677	10677	10677
-		Client Info		260	100	432
O served a Obstant		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	43	26	60
Chromium	ppm	ASTM D5185m	>20	1	<1	2
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	4
Lead	ppm	ASTM D5185m	>40	0	1	2
Copper	ppm	ASTM D5185m	>330	15	2	6
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	3	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	64	63	62
Manganese	ppm	ASTM D5185m	0	2	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1017	989	1051
Calcium	ppm	ASTM D5185m	1070	1154	1100	1240
Phosphorus	ppm	ASTM D5185m	1150	1089	1056	1060
Zinc	ppm	ASTM D5185m	1270	1396	1289	1382
Sulfur	ppm	ASTM D5185m	2060	3384	3353	2859
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	6	6
Sodium	ppm	ASTM D5185m		4	1	2
Potassium	ppm	ASTM D5185m	>20	3	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.5	0.3	0.8
Nitration	Abs/cm	*ASTM D7624	>20	10.1	8.1	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	19.9	23.9
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	16.7	23.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	8.0	6.5
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	16.7	23.4



OIL ANALYSIS REPORT





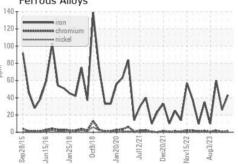


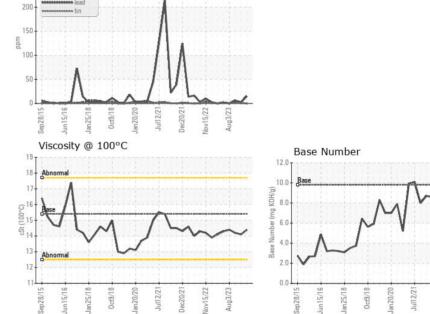
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	14.4	14.1	14.2
GRAPHS						

Ferrous Alloys

Non-ferrous Metals

250





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 017 - Durham Sample No. : GFL0125713 Received : 17 Jul 2024 148 Stone Park Court Lab Number : 06238780 Tested : 17 Jul 2024 Durham, NC Unique Number : 11127614 Diagnosed : 17 Jul 2024 - Wes Davis US 27703 Test Package : FLEET Contact: Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. bill.waring@wearcheck.com T: (919)596-1363 * - 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) F: (919)598-1852

Report Id: GFL017 [WUSCAR] 06238780 (Generated: 07/17/2024 15:31:21) Rev: 1

Submitted By: Ren - William Russel

Page 2 of 2

Vov15/22 Aug3/23

ec20/21