

OIL ANALYSIS REPORT

Area (EIB893) 3641

Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

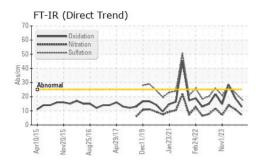
Fluid Condition

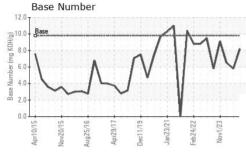
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

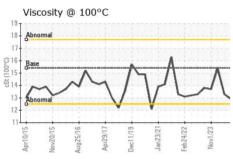
SAMPLE INFORM	ΙΔΤΙΩΝ	method	limit/base	current	history1	history2
	IAHON	Client Info	— mm/base	GFL0077470	GFL0089586	GFL0089600
Sample Number		Client Info		26 Jun 2024	20 Mar 2024	27 Feb 2024
Sample Date Machine Age	hrs	Client Info		1484	0 IVIAI 2024	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1115	Client Info		Not Changd	Not Changd	Not Changd
Sample Status		Ciletit iiiio		NORMAL	NORMAL	NORMAL
	ON		11 10 11			
CONTAMINATION	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	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	16	52	111
Chromium	ppm	ASTM D5185m	>5	<1	5	2
Nickel	ppm	ASTM D5185m	>4	<1	1	4
Titanium	ppm	ASTM D5185m	>2	<1	2	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>15	7	41	8
Lead	ppm	ASTM D5185m	>25	0	1	3
Copper	ppm	ASTM D5185m	>100	0	9	5
Tin	ppm	ASTM D5185m	>4	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	2	8
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	51	62	94
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	917	905	1109
Calcium	ppm	ASTM D5185m	1070	946	1103	1343
Phosphorus	ppm	ASTM D5185m	1150	985	1072	1188
Zinc	ppm	ASTM D5185m	1270	1192	1205	1385
Sulfur	ppm	ASTM D5185m	2060	3363	2628	2760
CONTAMINANT	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12	23	11
Sodium	ppm	ASTM D5185m		4	4	10
Potassium	ppm	ASTM D5185m	>20	3	23	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.7	0.9	1
Nitration	Abs/cm	*ASTM D7624	>20	7.0	11.0	13.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	22.7	27.5
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.8	18.9	28.4
Oxidation						
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	5.8	6.5



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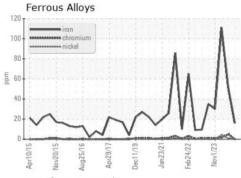


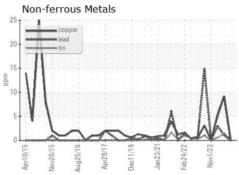


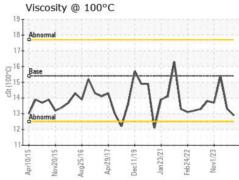
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

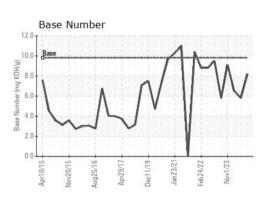
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	13.3	15.4

GRAPHS













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0077470 Lab Number : 06228282 Unique Number : 11111775

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Jul 2024

Tested : 05 Jul 2024 Diagnosed : 05 Jul 2024 - Wes Davis

GFL Environmental - 072 - Americus - Transwaste

361 McMath Mill Road Americus, GA US 31719

Contact: RICHARD HEINZERLING richard.heinzerling@gflenv.com T: (229)924-3669

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)