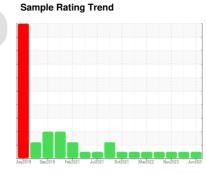


OIL ANALYSIS REPORT

(YA141297) 11320

Diesel Engine

PETRO CANADA DURON SHP 15W40 (9 GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

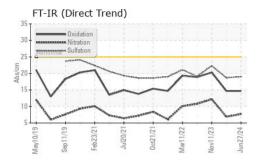
Fluid Condition

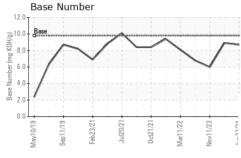
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

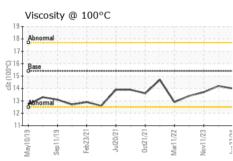
Oil Age Oil Changed Sample Status CONTAMINATIO Fuel Water Glycol WEAR METALS Iron Chromium	hrs hrs	Client Info Client Info Client Info Client Info Client Info	limit/base	Current GFL0123342 27 Jun 2024 7613 7613 N/A NORMAL Current	history1 GFL0082485 05 Jan 2024 7613 7613 Changed NORMAL	history2 GFL0082481 11 Nov 2023 7613 7613 Changed NORMAL
Sample Date Machine Age Oil Age Oil Changed Sample Status CONTAMINATION Fuel Water Glycol WEAR METALS Iron Chromium	hrs DN	Client Info Client Info Client Info Client Info Method WC Method		27 Jun 2024 7613 7613 N/A NORMAL	05 Jan 2024 7613 7613 Changed	11 Nov 2023 7613 7613 Changed
Machine Age Oil Age Oil Changed Sample Status CONTAMINATIO Fuel Water Glycol WEAR METALS Iron Chromium	hrs DN	Client Info Client Info Client Info method WC Method		7613 7613 N/A NORMAL	7613 7613 Changed	7613 7613 Changed
Oil Age Oil Changed Sample Status CONTAMINATIO Fuel Water Glycol WEAR METALS Iron Chromium	hrs DN	Client Info Client Info method WC Method		7613 N/A NORMAL	7613 Changed	7613 Changed
Oil Changed Sample Status CONTAMINATIO Fuel Water Glycol WEAR METALS Iron Chromium	ON	Client Info method WC Method		N/A NORMAL	Changed	Changed
Sample Status CONTAMINATIO Fuel Water Glycol WEAR METALS Iron Chromium		method WC Method		NORMAL	Ü	Ü
CONTAMINATION Fuel Water Glycol WEAR METALS Iron Chromium		WC Method		current		
Water Glycol WEAR METALS Iron Chromium			>5			history2
Glycol WEAR METALS Iron Chromium		WC Method		<1.0	<1.0	<1.0
WEAR METALS Iron Chromium			>0.2	NEG	NEG	NEG
Iron Chromium		WC Method		NEG	NEG	NEG
Chromium		method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>100	9	11	27
Nickel	ppm	ASTM D5185m	>20	<1	<1	<1
HORO	ppm	ASTM D5185m	>4	0	<1	<1
	ppm	ASTM D5185m		0	<1	0
	ppm	ASTM D5185m	>3	0	0	0
	ppm	ASTM D5185m	>20	3	5	13
	ppm	ASTM D5185m	>40	0	<1	0
	ppm	ASTM D5185m	>330	<1	1	<1
	ppm	ASTM D5185m	>15	0	<1	<1
	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	14	<1	0
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	52	57	61
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	842	944	866
Calcium	ppm	ASTM D5185m	1070	1158	1042	988
Phosphorus	ppm	ASTM D5185m	1150	1058	953	884
Zinc	ppm	ASTM D5185m	1270	1270	1231	1161
Sulfur	ppm	ASTM D5185m	2060	3025	3323	2752
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	2
Sodium	ppm	ASTM D5185m		2	0	7
Potassium	ppm	ASTM D5185m	>20	7	11	27
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.7	6.9	12.2
	Abs/.1mm	*ASTM D7415	>30	19.0	18.7	22.3
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	Abs/.1mm	*ASTM D7414	>25	14.7	14.7	20.3
Oxidation						



OIL ANALYSIS REPORT



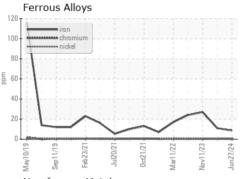


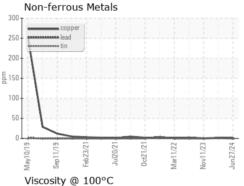


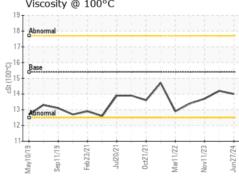
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

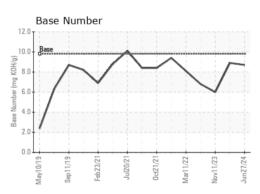
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.2	13.7

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0123342 Lab Number : 06227101 Unique Number : 11110594

Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jul 2024 **Tested** : 05 Jul 2024 Diagnosed

: 05 Jul 2024 - Wes Davis

GFL Environmental - 007 - Brunswick

2809 Galloway Road Bolivia, NC

US 28422 Contact: DONALD CRAVEN

dcraven@gflenv.com T:

* - 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: (910)253-4179

Submitted By: DONALD CRAVEN