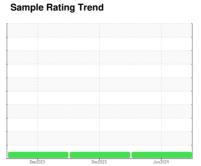


OIL ANALYSIS REPORT

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Area (SB14421)
412063
Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (42 QTS)

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

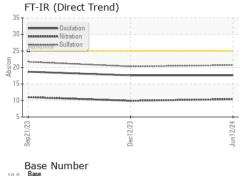
Fluid Condition

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

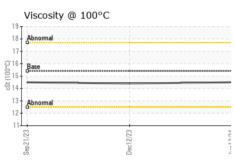
SAMPLE INFORI Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status CONTAMINAT Fuel Water Glycol WEAR METAL	hrs hrs	method Client Info Client Info Client Info Client Info Client Info We Method WC Method WC Method WC Method	limit/base limit/base >5	current GFL0115627 12 Jun 2024 3976 1106 Changed NORMAL current	history1 GFL0095968 12 Dec 2023 2870 540 Changed NORMAL history1	history2 GFL0095974 21 Sep 2023 2330 495 Changed NORMAL
Sample Date Machine Age Oil Age Oil Changed Sample Status CONTAMINAT Fuel Water Glycol WEAR METAL Iron Chromium	hrs	Client Info Client Info Client Info Client Info WC Method WC Method		12 Jun 2024 3976 1106 Changed NORMAL	12 Dec 2023 2870 540 Changed NORMAL	21 Sep 2023 2330 495 Changed NORMAL
Machine Age Oil Age Oil Changed Sample Status CONTAMINAT Fuel Water Glycol WEAR METAL Iron Chromium	hrs	Client Info Client Info Client Info Method WC Method WC Method		3976 1106 Changed NORMAL	2870 540 Changed NORMAL	2330 495 Changed NORMAL
Oil Age Oil Changed Sample Status CONTAMINAT Fuel Water Glycol WEAR METAL Iron Chromium	hrs	Client Info Client Info method WC Method WC Method		1106 Changed NORMAL	540 Changed NORMAL	495 Changed NORMAL
Oil Changed Sample Status CONTAMINAT Fuel Water Glycol WEAR METAL Iron Chromium	ION	method WC Method WC Method		Changed NORMAL	Changed NORMAL	Changed NORMAL
Sample Status CONTAMINAT Fuel Water Glycol WEAR METAL Iron Chromium		method WC Method WC Method		NORMAL	NORMAL	NORMAL
Sample Status CONTAMINAT Fuel Water Glycol WEAR METAL Iron Chromium		WC Method		NORMAL	NORMAL	NORMAL
Fuel Water Glycol WEAR METAL: Iron Chromium		WC Method		current	historv1	la la la como
Water Glycol WEAR METAL: Iron Chromium	S	WC Method	>5			history2
Glycol WEAR METAL: Iron Chromium	S			<1.0	<1.0	<1.0
WEAR METAL: ron Chromium	S	WC Method	>0.2	NEG	NEG	NEG
lron Chromium	S	VVO IVICTIOU		NEG	NEG	NEG
Chromium	O	method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>100	18	15	21
	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	6	3	9
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	2	<1	2
Tin	ppm	ASTM D5185m	>15	1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	2	7
Barium	ppm	ASTM D5185m	0	1	0	0
Molybdenum	ppm	ASTM D5185m	60	62	52	63
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	985	915	963
Calcium	ppm	ASTM D5185m	1070	1109	1070	1146
Phosphorus	ppm	ASTM D5185m	1150	1060	931	1089
Zinc	ppm	ASTM D5185m	1270	1286	1185	1350
Sulfur	ppm	ASTM D5185m	2060	3112	2868	3178
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	6	7
Sodium	ppm	ASTM D5185m		0	1	1
Potassium	ppm	ASTM D5185m	>20	12	8	22
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	10.4	9.9	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	20.3	21.7
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	17.6	18.7
Base Number (BN)	mg KOH/g	ASTM D2896		7.6	7.7	7.4



OIL ANALYSIS REPORT



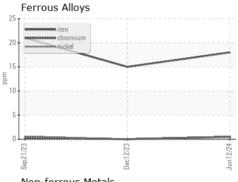
Base Nur	nber	
(B) 8.0		
8.0 - 0.8 Mumber (mg KOH/g)		
4.0		
2.0		
0.0	- m	*
Sep21/23	Dec12/23	C.C1

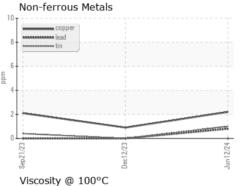


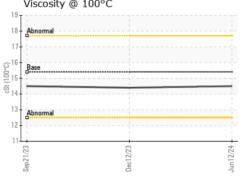
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

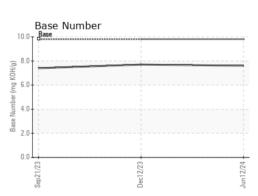
LLUID FROFI		memod			HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.5	14.4	14.5

GRAPHS













Laboratory Sample No.

Lab Number : 06217815 Unique Number : 11096012

: GFL0115627

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Jun 2024 Tested

: 25 Jun 2024 Diagnosed : 25 Jun 2024 - Wes Davis

2300 Deerfield Ave E

Suamico, WI US 54313 Contact: NICHOLAS WEIDNER nweidner@gflenv.com

GFL Environmental - 916A - Suamico

Test Package : FLEET Certificate 12367 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: Teresa Vuckovich

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F: