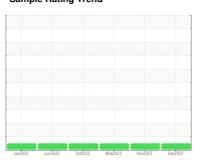


OIL ANALYSIS REPORT

Sample Rating Trend







DT789 Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (36 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

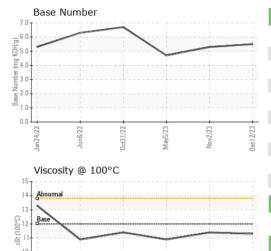
Fluid Condition

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

QTS)		Jan 2022	Jun2022 Oct2022	. May2023 Nov2023	Dec2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0113177	PCA0103283	PCA0096959
Sample Date		Client Info		12 Dec 2023	02 Nov 2023	05 May 2023
Machine Age	mls	Client Info		129252	122326	104020
Oil Age	mls	Client Info		6926	18306	26108
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	29	26	36
Chromium	ppm	ASTM D5185m	>20	1	<1	2
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	13	19	20
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m		2	2	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	4	7	4
Barium	ppm	ASTM D5185m		13	0	0
Molybdenum	ppm	ASTM D5185m	50	69	67	76
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	974	968	1086
Calcium	ppm	ASTM D5185m	1050	1234	1251	1328
Phosphorus	ppm	ASTM D5185m	995	1065	1088	1108
Zinc	ppm	ASTM D5185m	1180	1331	1377	1341
Sulfur	ppm	ASTM D5185m	2600	2808	2933	3209
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	6	6
Sodium	ppm	ASTM D5185m	00	0	4	1
Potassium	ppm	ASTM D5185m		23	44	28
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.8	0.7
Nitration	Abs/cm	*ASTM D7624		9.8	10.2	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	23.5	20.9
FLUID DEGRA	DATION		limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.8	19.5	17.7
Base Number (BN)	mg KOH/g	ASTM D2896		5.5	5.3	4.7



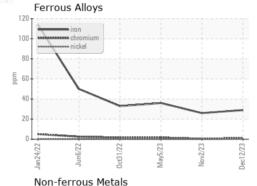
OIL ANALYSIS REPORT



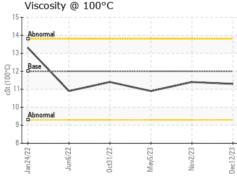
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

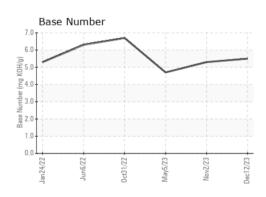
FLUID PROP	ERITES	method	iimii/base		nistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	12.00	11.3	11.4	10.9

GRAPHS



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Jan24/22	Jun6/22	0ct31/22	May5/23	Nov2/23	Dec12/23
Visco	sity @ 1	.00°C			







Certificate L2367

Sample No.

Laboratory Lab Number Test Package : FLEET

: PCA0113177 : 06036544 Unique Number : 10791773

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 15 Dec 2023

Diagnosed : 18 Dec 2023 Diagnostician : Wes Davis

NW WHITE & CO - ANDERSON DIVISION

2605 RIVER RD PIEDMONT, SC US 29673

Contact: James Threatt jthreatt@nwwhite.com T: (864)918-4646

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)