

OIL ANALYSIS REPORT

Sample Rating Trend





Component Diesel Engine

Fluid

PETRO CANADA DURON SHP 10W30 (36 hrs)

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 INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0104208	PCA0110868	PCA0104164
Sample Date		Client Info		05 Feb 2024	30 Nov 2023	20 Sep 2023
Machine Age	mls	Client Info		305233	135062	278334
Oil Age	mls	Client Info		25000	0	25000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/hase	current	history1	history2
Fuel		WO Method	F		1.0	1.0
Fuel			>0 0	<1.0	<1.0	<1.0
Water		WC Wethod	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	23	8	31
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	3	2	6
Lead	ppm	ASTM D5185m	>45	8	2	4
Copper	ppm	ASTM D5185m	>85	13	31	6
Tin	ppm	ASTM D5185m	>4	2	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	5	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	61	61	66
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	950	911	963	940
Calcium	ppm	ASTM D5185m	1050	1111	1062	1133
Phosphorus	ppm	ASTM D5185m	995	1023	1069	1034
Zinc	ppm	ASTM D5185m	1180	1190	1236	1292
Sulfur	ppm	ASTM D5185m	2600	3027	3877	2631
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	11	4	16
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	6	1	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.8	0.6
Nitration	Abs/cm	*ASTM D7624	>20	9.8	9.6	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	22.2	24.1
FLUID DEGRAD	AT <u>ION</u>	method	limit/base	current	history1	history2
Ovidation	Abc/1mm	*ASTM D7/1/	>25	19.6	18.4	21.7
Base Number (BN)			220	5.9	5.9	4.5
Dase Number (BN)	nig KOH/g	AS HVI DZ896		5.8	5.9	4.5



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VISUAL		method				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	12.00	11.7	11.8	12.2
GRAPHS						



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

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