

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 10875 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (9 GAL)

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

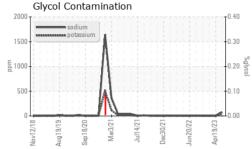
Fluid Condition

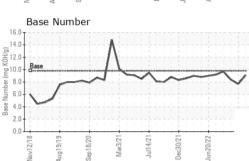
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

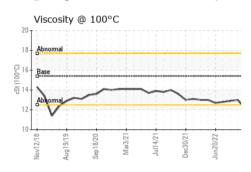
#2018 Aug2019 Sep2020 Med2021 Jul2021 Dec2021 Jun2022 App2023						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0095831	PCA0077277	PCA0074693
Sample Date		Client Info		28 Aug 2023	19 Apr 2023	26 Jan 2023
Machine Age	hrs	Client Info		11606	11194	10887
Oil Age	hrs	Client Info		412	307	587
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	MARGINAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	▲ 4.6	<1.0
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	52	7	11
Chromium	ppm	ASTM D5185m	>5	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	3	3	2
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m		32	0	<1
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	26	19	12
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	76	63	63
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	895	825	852
Calcium	ppm	ASTM D5185m	1070	1161	1193	1226
Phosphorus	ppm	ASTM D5185m	1150	1028	954	960
Zinc	ppm	ASTM D5185m	1270	1283	1218	1219
Sulfur	ppm	ASTM D5185m	2060	3895	3295	3456
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	4	4
Sodium	ppm	ASTM D5185m		72	2	2
Potassium	ppm	ASTM D5185m	>20	42	<1	<1
Glycol	%	*ASTM D2982		0.0	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.1	0.3	0.5
Nitration	Abs/cm	*ASTM D7624		4.8	7.1	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.2	18.7	18.7
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.5	15.5	14.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.1	7.7	8.4



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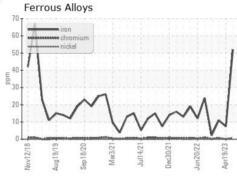


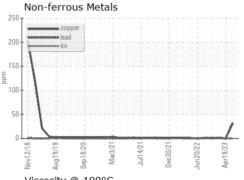


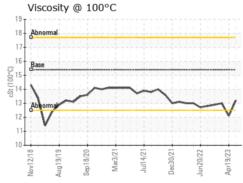
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

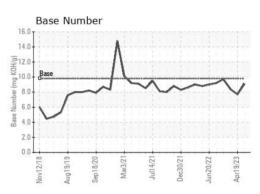
FLUID PROP	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	12.1	13.0

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: PCA0095831 : 05938145 : 10628757

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

: 30 Aug 2023 Test Package : FLEET (Additional Tests: Glycol)

: 01 Sep 2023

Diagnostician : Wes Davis

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)

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