

OIL ANALYSIS REPORT

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

Oil Age

Fuel

Water

(MC12183) S0916A-Suamico 821018 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (39 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

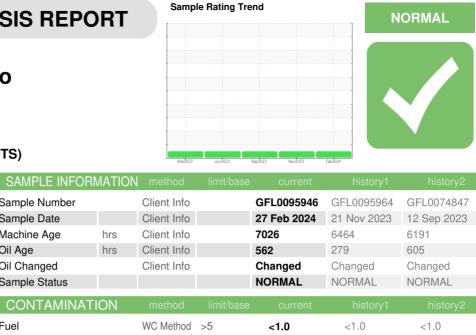
All component wear rates are normal.

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.



NEG

NEG

NEG

			F 0.1			
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	15	8	12
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	14	6	4
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	1	0	4
Tin	ppm	ASTM D5185m	>15	0	<1	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1

WC Method >0.2

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	7	2
Barium	ppm	ASTM D5185m	0	0	0	44
Molybdenum	ppm	ASTM D5185m	60	63	58	57
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	1093	926	867
Calcium	ppm	ASTM D5185m	1070	1217	1087	1083
Phosphorus	ppm	ASTM D5185m	1150	1160	1097	919
Zinc	ppm	ASTM D5185m	1270	1393	1249	1163
Sulfur	ppm	ASTM D5185m	2060	3450	3107	3039
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	4

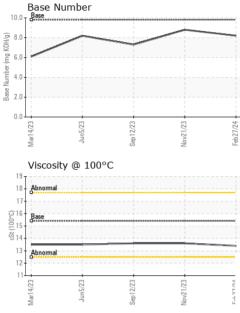
CONTAIMINANTS		memou	iiiiii/base	Current	Thistory I	TIIStory Z
Silicon	ppm	ASTM D5185m	>25	4	3	4
Sodium	ppm	ASTM D5185m		1	0	2
Potassium	ppm	ASTM D5185m	>20	<1	3	4

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.5	0.8
Nitration	Abs/cm	*ASTM D7624	>20	7.9	6.7	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	20.0	20.4
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	14.6	15.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	8.8	7.3



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VISUAL



Certificate L2367 To discuss thi * - Denotes te		: 10910469	Receiv Tested Diagno	ed : 04 : 05 osed : 05	Mar 2024 Mar 2024 Mar 2024 - W	es Davis	2300 I	D16A - Suamico Deerfield Ave E Suamico, WI US 54313 LAS WEIDNER her@gflenv.com
		E2/5/um Viscosity @ 100°C 19 10 10 10 10 10 10 10 10 10 10	Sep12/23 Sep12/23	Nov21/23 Nov21/23	Fab271/24 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		Sep12/23	Nov21/23
		EZGump Non-ferrous Metal		23 Kov21/23	24 Feb27/24			
Sep 12/23	Nov21/23	GRAPHS Ferrous Alloys						
		FLUID PROPE Visc @ 100°C		method ASTM D445	limit/base	current 13.4	history1 13.6	history2 13.6
Sep12/23	Nov21/23 Feb27/24	Sand/Dirt Appearance Odor Emulsified Water Free Water	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NORML NORML >0.2	NORE NORML NORML NEG NEG	NORE NORML NORML NEG NEG	NORE NORML NORML NEG NEG
		Yellow Metal Precipitate Silt Debris	scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NONE	NONE NONE NONE NONE	NONE NONE NONE	NONE NONE NONE

Submitted By: Teresa Vuckovich Page 2 of 2