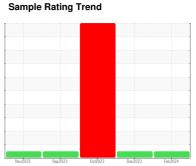


OIL ANALYSIS REPORT

San



NORMAL



Machine Id **820038-253**

Component

Diocol Engine

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- LTR)

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

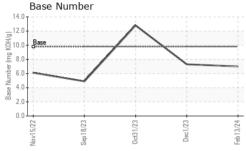
Fluid Condition

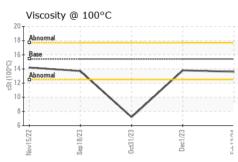
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

TR)		Nov2022	Sep2023	Oct2023 Dec2023	Feb 2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108497	GFL0103370	GFL0066035
Sample Date		Client Info		13 Feb 2024	01 Dec 2023	31 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	SEVERE
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0	<1.0	1.7
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	8	11	280
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		2	3	22
Lead	ppm	ASTM D5185m	>40	0	0	23
Copper	ppm	ASTM D5185m		<1	2	110
Tin	ppm	ASTM D5185m	>15	0	0	2
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	9	4	4 94
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	56	1 6
Manganese	ppm	ASTM D5185m		0	<1	4
Magnesium	ppm	ASTM D5185m	1010	1023	941	▲ 22
Calcium	ppm		1070	1147	1057	▲ 159
Phosphorus	ppm	ASTM D5185m	1150	1057	894 1180	▲ 192 ▲ 162
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1270 2060	1303 2971	2967	▲ 163 ▲ 1247
CONTAMINAL		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		4	5	19
Sodium	ppm	ASTM D5185m	720	3	4	<u> </u>
Potassium	ppm	ASTM D5185m	>20	0	2	<u> </u>
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.5	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.7	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	19.3	19.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	15.5	37.5
Base Number (BN)		ASTM D2896	9.8	7.0	7.3	12.8
(211)	.59					



OIL ANALYSIS REPORT

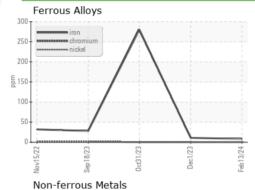


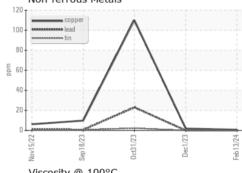


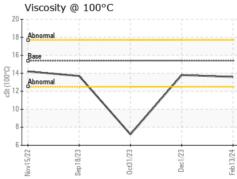
VISUAL		method	limit/base	current		history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG

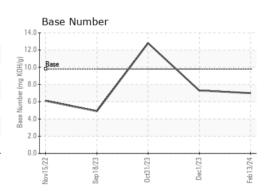
FLUID PROP	ERTIES	method				histor	
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.8	▲ 7.2	

GRAPHS













Laboratory Sample No. Lab Number : 06092672

: GFL0108497

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

Tested Unique Number: 10885525 Diagnosed

: 19 Feb 2024 : 20 Feb 2024 : 20 Feb 2024 - Wes Davis

11888 & 11863 30th Avenue Chippewa Falls, WI US 54729

GFL Environmental - 904 - Chippewa Falls HC

Contact: Andy Kane

T: (715)202-3420

Test Package : FLEET 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)

F: