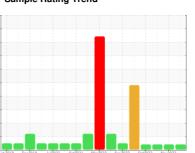


OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id **923040-260203**

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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.

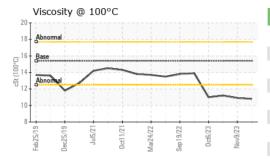
▲ Fluid Condition

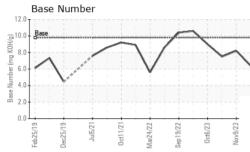
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

GAL)		eb2019 Dec2	019 Jul2021 Oct2021	Mar2022 Sep2022 Oct2023	Nov2023	
SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	hrs hrs	Client Info Client Info Client Info Client Info Client Info		GFL0088215 18 Dec 2023 0 0 N/A ATTENTION	GFL0088212 09 Nov 2023 11999 0 Not Changd ATTENTION	GFL0088210 24 Oct 2023 0 0 N/A ATTENTION
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel Water Glycol		WC Method WC Method WC Method	>5 >0.2	<1.0 NEG NEG	<1.0 NEG NEG	<1.0 NEG NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron Chromium Nickel Titanium Silver Aluminum	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >4 >3 >20	66 2 <1 <1 0	50 1 0 0 0 0	34 1 <1 <1 <1 4
Lead Copper Tin Vanadium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>40 >330 >15	2 7 0 <1	<1 4 0	1 4 <1 <1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	60	4 0 58 4	5 5 61 3	9 4 53 4
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270	885 1026 868 1193	1016 1209 1156 1487	837 977 1004 1135
Sulfur	ppm	ASTM D5185m		2801	3502	2647
CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm	Method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20	current 13 22 <1	history1 12 13 <1	history2 10 15 2
INFRA-RED		method	limit/base	current	history1	history2
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>3 >20 >30	1.3 10.6 22.6	9.1 21.0	0.7 7.7 20.1
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.8	19.6 6.4	17.4 8.2	15.6 7.5



OIL ANALYSIS REPORT

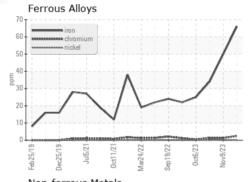


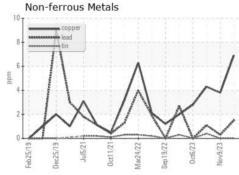


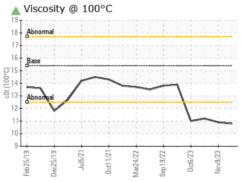
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

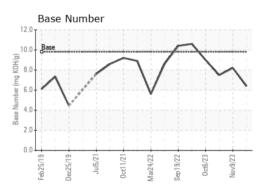
FLUID PROPE	ERITES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	10.8	1 0.9	11.2

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10795225 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0088215 : 06039996

Recieved : 19 Dec 2023 Diagnosed Diagnostician : Don Baldridge

: 21 Dec 2023

GFL Environmental - 820 - Joplin Hauling

3700 West 7th Street Joplin, MO US 64801 Contact: James Jarrett

jjarrett@gflenv.com T: (417)310-2802

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)