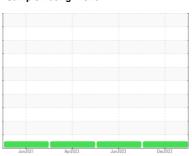


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
638M
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (--- 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.

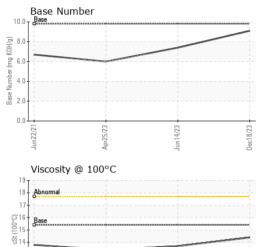
ON SHP 15W40 (- GAL)	Jun202	1 Apr2023	Jun 2023 Di	ec2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	hrs hrs	Client Info Client Info Client Info Client Info Client Info		GFL0105747 18 Dec 2023 9949 9823 Not Changd NORMAL	GFL0086697 14 Jun 2023 9823 9133 Changed NORMAL	GFL0081391 25 Apr 2023 9133 0 Changed NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel Water Glycol		WC Method WC Method	>3.0 >0.2	<1.0 NEG NEG	<1.0 NEG NEG	<1.0 NEG NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Antimony Vanadium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>120 >20 >5 >2 >2 >2 >2 >2 >20 >40 >330 >15	2 <1 0 0 0 0 2 0 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 <1 0 <1 0 <2 <1 2 <1 2 1 <1	17 <1 0 0 0 2 0 7 1 <1
Cadmium ADDITIVES	ppm	ASTM D5185m	limit/base	0	<1	0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	Method ASTM D5185m	0 0 60 0 1010 1070 1150	current 16 0 60 0 882 985 853 1125 2729	history1 2 0 59 <1 968 1110 994 1265 3366	history2 2 0 57 1 909 1032 931 1206 2838
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	9 0 1	4 4 2	3 4 0
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base	0.1 4.4 17.7	history1 0.6 7.3 20.6	0.8 8.6 21.6
FLUID DEGRAD Oxidation Base Number (BN)	Abs/.1mm	method *ASTM D7414 ASTM D2896	limit/base >25 9.8	current 13.2 9.1	history1 17.0 7.4	18.1 6.0



13

12

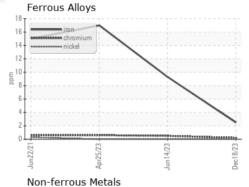
OIL ANALYSIS REPORT

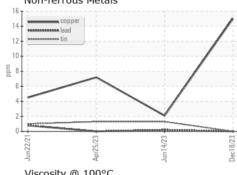


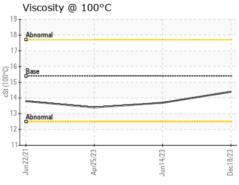
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

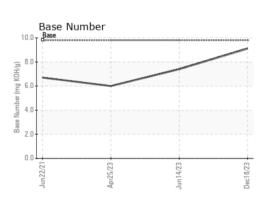
FLUID PROP	EKIIES	method	ilmit/base		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	13.7	13.4

GRAPHS













Laboratory Sample No. Lab Number Unique Number : 10795458

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06040229

: GFL0105747

Recieved Diagnosed

: 21 Dec 2023 Diagnostician : Sean Felton

: 20 Dec 2023

Test Package : FLEET (Additional Tests: FT-IR(Diff)) 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.

GFL Environmental - 415 - Michigan East

6200 Elmridge Sterling Heights, MI US 48313 Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

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