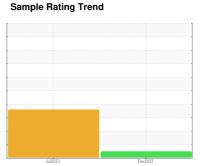


OIL ANALYSIS REPORT

OPT



NORMAL



Machine Id **228036**

Component **Diesel Engine**

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

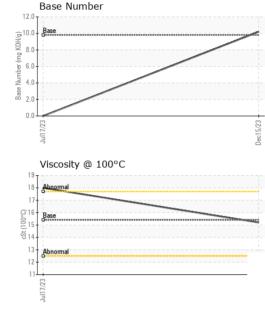
Fluid Condition

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

AL)			Jul2023	Dec2023			
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0066174	GFL0066180		
Sample Date		Client Info		15 Dec 2023	17 Jul 2023		
Machine Age h	nrs	Client Info		19650	0		
Dil Age h	nrs	Client Info		500	0		
Oil Changed		Client Info		Changed	N/A		
Sample Status				NORMAL	SEVERE		
CONTAMINATIO	N	method	limit/base	current	history1	history2	
uel		WC Method	>5	<1.0	<1.0		
Vater		WC Method	>0.2	NEG	NEG		
Glycol		WC Method		NEG	NEG		
WEAR METALS		method	limit/base	current	history1	history2	
ron p	opm	ASTM D5185m	>100	10	60		
Chromium p	opm	ASTM D5185m	>20	<1	2		
lickel p	pm	ASTM D5185m	>4	0	<1		
Titanium p	opm	ASTM D5185m		0	0		
Silver	opm	ASTM D5185m	>3	0	0		
Aluminum p	opm	ASTM D5185m	>20	1	6		
_ead p	ppm	ASTM D5185m	>40	3	22		
Copper p	ppm	ASTM D5185m	>330	4	3		
in p	pm	ASTM D5185m	>15	0	1		
	pm	ASTM D5185m		<1	<1		
	opm	ASTM D5185m		0	0		
ADDITIVES		method	limit/base	current	history1	history2	
Boron p	opm	ASTM D5185m	0	8	22		
Barium p	opm	ASTM D5185m	0	0	0		
Molybdenum p	ppm	ASTM D5185m	60	57	79		
	ppm	ASTM D5185m	0	0	1		
	ppm	ASTM D5185m	1010	896	1191		
-	pm	ASTM D5185m	1070	1013	1456		
	ppm	ASTM D5185m	1150	920	1199		
	ppm	ASTM D5185m	1270	1131	1542		
	opm	ASTM D5185m	2060	2928	3625		
CONTAMINANTS	S	method	limit/base	current	history1	history2	
Silicon p	pm	ASTM D5185m	>25	3	9		
Sodium p	pm	ASTM D5185m		<1	4		
Potassium p	opm	ASTM D5185m	>20	0	2		
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	2.2	6.3		
	Abs/cm	*ASTM D7624	>20	8.8	25.6		
	Abs/.1mm	*ASTM D7415	>30	22.0	40.5		
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation A	Abs/.1mm	*ASTM D7414	>25	15.9	39.7		
	ng KOH/g	ASTM D2896	9.8	10.2	△ 0.0		
Dado Italiiboi (DIT)	ng nong	7.0 TWI D2000	0.0	10.2			



OIL ANALYSIS REPORT

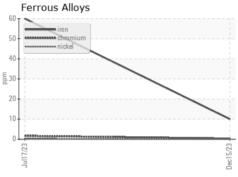


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPE	RTIES	method	limit/base	current	history1	history2

15.2

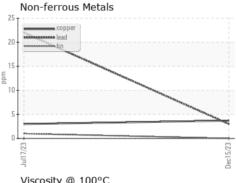
<u>▲</u> 18.0

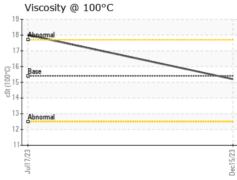
Visc @	100°C
GRA	PHS

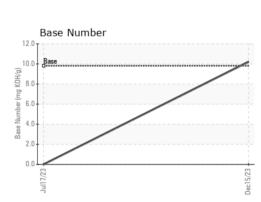


cSt

ASTM D445 15.4









Laboratory Sample No. Lab Number Unique Number : 10795573

: GFL0066174 : 06040344

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

: 20 Dec 2023 : 21 Dec 2023

Diagnostician : Sean Felton

GFL Environmental - 904B - Menomonie 1706 MIDWAY RD

MENOMONIE, WI US 54751

Contact: ANDY KANE

Test Package : FLEET (Additional Tests: FT-IR(Diff)) Certificate L2367 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) T: (715)202-3420

F: