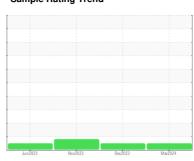


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **829085**

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

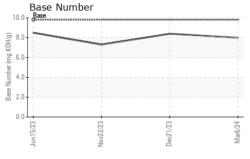
Fluid Condition

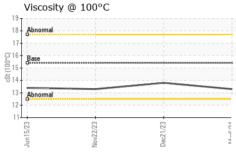
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Jun202	3 Nov2023	Dec2023 M.	m2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0103578	GFL0103590	GFL0085304	
Sample Date		Client Info		06 Mar 2024	21 Dec 2023	22 Nov 2023	
Machine Age	hrs	Client Info		5629	5629	5629	
Oil Age	hrs	Client Info		510	596	610	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	ATTENTION	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	15	6	19	
Chromium	ppm	ASTM D5185m	>20	<1	<1	1	
Nickel	ppm	ASTM D5185m	>4	0	0	<1	
Titanium	ppm	ASTM D5185m		0	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	<1	
Aluminum	ppm	ASTM D5185m		<1	3	2	
Lead	ppm	ASTM D5185m	>40	1	<1	1	
Copper	ppm	ASTM D5185m		30	34	<u> </u>	
Tin	ppm	ASTM D5185m	>15	0	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm		0	2	2	4	
Barium	ppm	ASTM D5185m		0	9	0	
Molybdenum	ppm	ASTM D5185m	60	60	59	61	
Manganese	ppm	ASTM D5185m		0	0	<1	
Magnesium	ppm	ASTM D5185m	1010	1010	917	972	
Calcium	ppm	ASTM D5185m	1070	1106	1046	1101	
Phosphorus	ppm	ASTM D5185m	1150	1048	1044	939	
Zinc	ppm	ASTM D5185m	1270	1278	1178	1223	
Sulfur	ppm	ASTM D5185m	2060	3449	3257	2911	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	3	6	
Sodium	ppm	ASTM D5185m		4	<1	<1	
Potassium	ppm	ASTM D5185m	>20	0	2	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.4	0.2	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	7.3	5.8	8.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	18.6	20.9	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	14.2	17.6	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	8.4	7.3	



OIL ANALYSIS REPORT

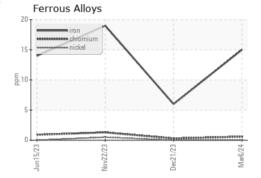


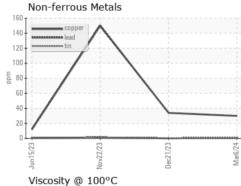


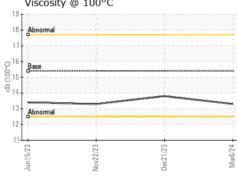
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

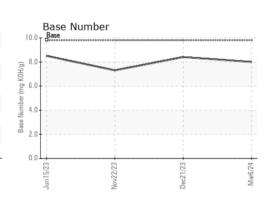
FLUID PROPE	:RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.8	13.3

GRAPHS













Laboratory Sample No.

Lab Number : 06114962 Unique Number : 10923795

: GFL0103578

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Mar 2024 **Tested** : 12 Mar 2024

Diagnosed : 12 Mar 2024 - Wes Davis

GFL Environmental - 958 - Tri County HC Morton

1090 W. Jefferson St. Morton, IL

US 61550 Contact: Bryan Link

blink@gflenv.com T:

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: