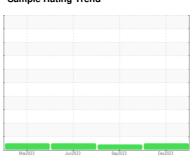


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 713049

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

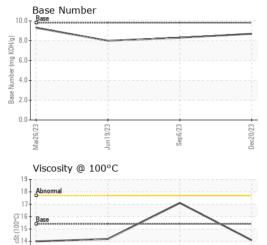
Fluid Condition

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

GAL)		Mar202	3 Jun2023	Sep2023 De	ec2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098439	GFL0089507	GFL0084533
Sample Date		Client Info		20 Dec 2023	06 Sep 2023	19 Jun 2023
Machine Age	hrs	Client Info		2653	2112	1622
Oil Age	hrs	Client Info		2653	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
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	>80	16	64	15
Chromium	ppm	ASTM D5185m	>5	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	0	6
Lead	ppm	ASTM D5185m	>30	<1	0	3
Copper	ppm	ASTM D5185m	>150	1	3	2
Tin	ppm	ASTM D5185m	>5	<1	<1	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	25	17	3
Barium	ppm	ASTM D5185m	0	8	0	0
Molybdenum	ppm	ASTM D5185m	60	51	13	63
Manganese	ppm	ASTM D5185m	0	<1	3	2
Magnesium	ppm	ASTM D5185m	1010	712	204	1026
Calcium	ppm	ASTM D5185m	1070	1429	231	1131
Phosphorus	ppm	ASTM D5185m	1150	836	1224	1054
Zinc	ppm	ASTM D5185m	1270	1073	282	1310
Sulfur	ppm	ASTM D5185m	2060	2822	5375	3586
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6	4	4
Sodium	ppm	ASTM D5185m		0	7	5
Potassium	ppm	ASTM D5185m	>20	6	4	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.8	5.9	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	31.4	20.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.9	21.3	18.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	8.3	8.0



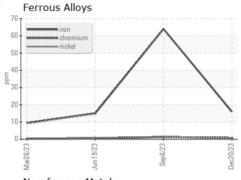
OIL ANALYSIS REPORT

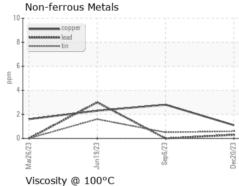


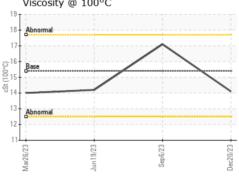
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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	RTIFS	method	limit/base	current	historv1	historv2

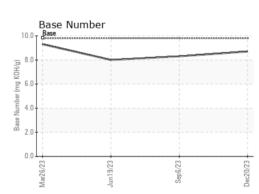
I LOID I NOI	LITTLO					
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	17.1	14.2

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10819407 Test Package : FLEET

: GFL0098439 : 06053458

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 08 Jan 2024 Diagnosed : 09 Jan 2024

Diagnostician : Wes Davis

GFL Environmental - 918 - Hartland HC

630 E Industrial Drive Hartland, WI US 53029

Contact: David McCall david.mccall@gflenv.com T: (262)369-3069

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)