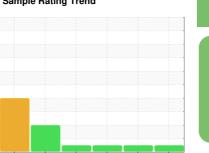


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 914052 Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (36 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

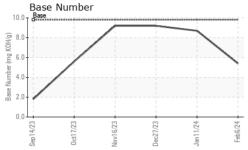
Fluid Condition

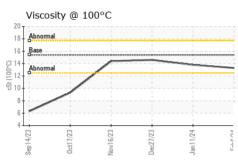
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Sep2023	UCIZUZ3 NOVZUZ3	Dec2023 Jan2024	Feb 2024		
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0110071	GFL0104257	GFL0104399	
Sample Date		Client Info		06 Feb 2024	11 Jan 2024	27 Dec 2023	
Machine Age	hrs	Client Info		1553	1271	1182	
Oil Age	hrs	Client Info		600	675	1182	
Oil Changed		Client Info		Changed	Changed	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATION	NC	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS	5	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>120	27	4	0	
Chromium	ppm	ASTM D5185m	>20	<1	0	0	
Nickel	ppm	ASTM D5185m	>5	2	0	0	
Titanium	ppm	ASTM D5185m	>2	- <1	0	0	
Silver	ppm	ASTM D5185m	>2	<1	0	<1	
Aluminum	ppm	ASTM D5185m	>20	1	2	1	
Lead		ASTM D5105m	>40	<1	<1	0	
	ppm	ASTM D5185m	>330	78	0	0	
Copper Tin	ppm	ASTM D5185m	>330	1	<1	0	
Vanadium	ppm	ASTM D5185m	>10	0			
	ppm			-	0	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	4	3	3	
Barium	ppm	ASTM D5185m	0	<1	0	0	
Molybdenum	ppm	ASTM D5185m	60	61	57	54	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	862	913	902	
Calcium	ppm	ASTM D5185m	1070	1097	963	904	
Phosphorus	ppm	ASTM D5185m	1150	886	1050	1009	
Zinc	ppm	ASTM D5185m	1270	1143	1243	1192	
Sulfur	ppm	ASTM D5185m	2060	2655	3034	3036	
CONTAMINANT	ΓS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	7	3	5	
Sodium	ppm	ASTM D5185m		0	<1	<1	
Potassium	ppm	ASTM D5185m	>20	3	2	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.5	0.2	0	
Nitration	Abs/cm	*ASTM D7624	>20	10.1	5.7	4.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	18.4	17.4	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	14.1	12.7	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.4	8.7	9.2	
(2.4)	99	J J _ 000		• • •			



OIL ANALYSIS REPORT

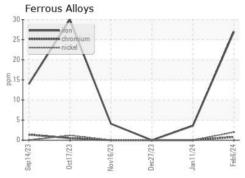


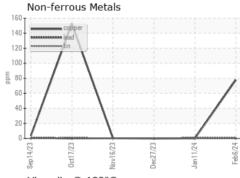


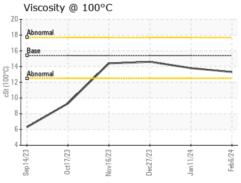
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual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

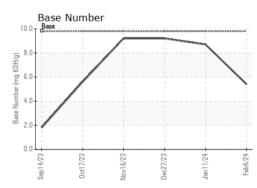
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.8	14.6

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0110071 Lab Number : 06083394 Unique Number: 10870839 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Feb 2024 **Tested**

: 08 Feb 2024 Diagnosed : 08 Feb 2024 - Wes Davis

GFL Environmental - 410 - Michigan West

39000 Van Born Rd Wayne, MI US 48184

Contact: Tony Esquina tesquina@gflenv.com

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:

F: