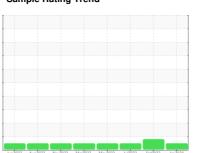


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 912001 Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- QTS)

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

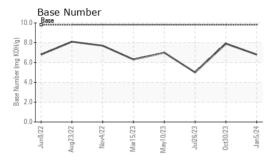
Fluid Condition

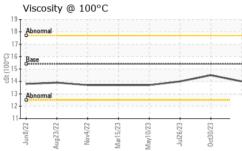
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

OANADLE INTE	DMATION	JunZUZZ A	ug2022 Nov2022 Mar20	3 May2023 Jul2023 Oct2023	Jan2024	12.	
SAMPLE INFO)RMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0106641	GFL0097667	GFL0087319	
Sample Date		Client Info		05 Jan 2024	30 Oct 2023	26 Jul 2023	
Machine Age	hrs	Client Info		6864	6274	5647	
Oil Age	hrs	Client Info		592	627	672	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	ATTENTION	NORMAL	
CONTAMINA	NOITA	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 META	ALS	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>120	25	▲ 102	46	
Chromium	ppm	ASTM D5185m	>20	<1	2	1	
Nickel	ppm	ASTM D5185m	>5	<1	1	<1	
Titanium	ppm	ASTM D5185m	>2	<1	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	<1	
Lead	ppm	ASTM D5185m	>40	<1	2	2	
Copper			>330	3	13	13	
Tin	ppm	ASTM D5185m	>15		1	<1	
	ppm		>10	<1			
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	2	0	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	56	57	60	
Manganese	ppm	ASTM D5185m	0	<1	2	<1	
Magnesium	ppm	ASTM D5185m	1010	902	913	976	
Calcium	ppm	ASTM D5185m	1070	1016	1067	1136	
Phosphorus	ppm	ASTM D5185m	1150	924	956	921	
Zinc	ppm	ASTM D5185m	1270	1165	1266	1287	
Sulfur	ppm	ASTM D5185m	2060	2576	2117	2527	
CONTAMINA	ANTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	5	4	
Sodium	ppm	ASTM D5185m		2	13	6	
Potassium	ppm	ASTM D5185m	>20	3	3	1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.9	0.4	1.9	
Nitration	Abs/cm	*ASTM D7624	>20	8.6	9.4	10.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	24.1	23.5	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	22.1	19.6	
Base Number (BN	N) mg KOH/g	ASTM D2896	9.8	6.8	7.9	5.0	



OIL ANALYSIS REPORT

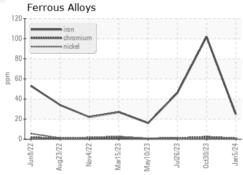


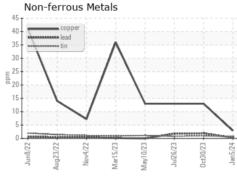


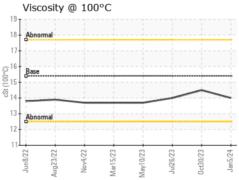
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

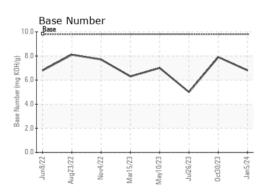
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.5	14.0

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0106641 : 06058607 : 10829989

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Recieved Diagnosed Diagnostician : Wes Davis

: 11 Jan 2024 : 12 Jan 2024 GFL Environmental - 405 - Arbor Hills

7400 Napier Rd NORTHVILLE, MI US 48168

Contact: Anthony Hopkins ahopkins@gflenv.com

T: F:

* - 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)