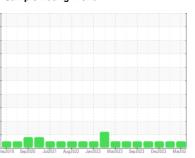


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **929083-260354**

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (12 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.

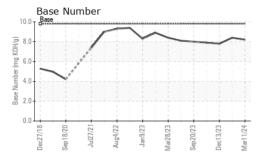
Fluid Condition

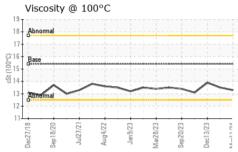
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

โดะเรียโกซิ Smp202C0 - Jus2021 คนหรือเวล - Jun2023 Mmz2023 Smp2023 Dmc2023 1/mz202							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL06128613	GFL0109204	GFL0098318	
Sample Date		Client Info		11 Mar 2024	29 Jan 2024	13 Dec 2023	
Machine Age	hrs	Client Info		13503	13234	12921	
Oil Age	hrs	Client Info		0	700	700	
Oil Changed		Client Info		Changed	Changed	Not Changd	
Sample Status				NORMAL	NORMAL	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	>100	10	6	35	
Chromium	ppm	ASTM D5185m	>20	<1	<1	2	
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1	
Titanium	ppm	ASTM D5185m		<1	<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	<1	
Aluminum	ppm	ASTM D5185m	>20	3	<1	3	
Lead	ppm	ASTM D5185m	>40	2	2	0	
Copper	ppm	ASTM D5185m	>330	1	<1	2	
Tin	ppm	ASTM D5185m		1	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		<1	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	<1	1	
Barium	ppm	ASTM D5185m	0	1	0	0	
Molybdenum	ppm	ASTM D5185m	60	62	62	61	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	945	994	952	
Calcium	ppm	ASTM D5185m	1070	1174	1111	1017	
Phosphorus	ppm	ASTM D5185m	1150	1132	1061	1046	
Zinc	ppm	ASTM D5185m	1270	1281	1289	1255	
Sulfur	ppm	ASTM D5185m	2060	3497	3199	2859	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	7	4	
Sodium	ppm	ASTM D5185m		2	0	7	
Potassium	ppm	ASTM D5185m	>20	2	1	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.4	0.3	1.5	
Nitration	Abs/cm	*ASTM D7624		7.4	6.2	10.6	
Sulfation	Abs/.1mm	*ASTM D7415		19.5	18.4	22.0	
FLUID DEGRAD) NOITAC		limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	13.9	17.0	
Base Number (BN)		ASTM D2896	9.8		8.4	7.8	
Dase Number (DIV)	mg KOH/g	49 LIVI D5030	3.0	8.2	0.4	7.0	



OIL ANALYSIS REPORT

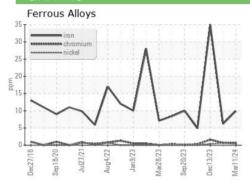


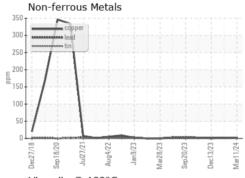


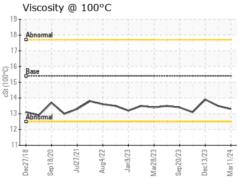
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

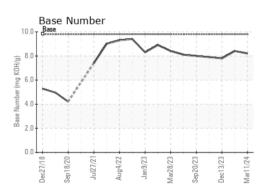
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.5	13.9

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06128613 Unique Number : 10942764 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL06128613 Received **Tested**

: 26 Mar 2024 Diagnosed

: 26 Mar 2024 - Wes Davis

: 25 Mar 2024

GFL Environmental - 822 - Springfield Hauling

2120 West Bennett Street

Springfield, MO US 65807

Contact: Dennis Moore

dennis.moore@gflenv.com T: (417)403-3641

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)