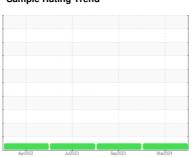


OIL ANALYSIS REPORT

Sample Rating Trend









7819M
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (5 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

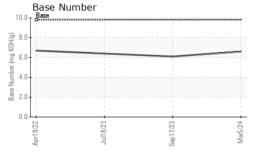
Fluid Condition

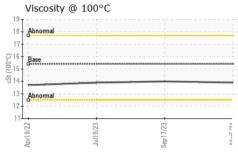
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Apr202	2 Jul2023	Sep 2023 M	lar2024	
SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115024	GFL0087251	GFL0087279
Sample Date		Client Info		05 Mar 2024	17 Sep 2023	18 Jul 2023
Machine Age	hrs	Client Info		7930	8373	7145
Oil Age	hrs	Client Info		600	755	645
Oil Changed	0	Client Info		Changed	Changed	Changed
Sample Status		Olioni iilio		NORMAL	NORMAL	NORMAL
·	ATION		line it /le e e e			
CONTAMINA	ATION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water			>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	ALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	29	71	63
Chromium	ppm	ASTM D5185m	>20	<1	5	6
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	7	7
Lead	ppm	ASTM D5185m	>40	0	2	<1
Copper	ppm	ASTM D5185m	>330	<1	2	2
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	ррпп	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	2	4 0
Barium	ppm	ASTM D5185m				
Molybdenum	ppm	ASTM D5185m	60	60	64	64
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	878	984	1006
Calcium	ppm	ASTM D5185m	1070	1051	1098	1132
Phosphorus	ppm	ASTM D5185m	1150	887	1017	1091
Zinc	ppm	ASTM D5185m	1270	1132	1291	1355
Sulfur	ppm	ASTM D5185m	2060	2649	2981	3578
CONTAMINA	ANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	9	10
Sodium	ppm	ASTM D5185m		4	32	8
Potassium	ppm	ASTM D5185m	>20	4	9	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.5	0.9	1
Nitration	Abs/cm	*ASTM D7624	>20	11.4	13.8	13.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	24.3	24.4
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0	21.9	21.7
Base Number (BN		ASTM D7414		6.6	6.1	6.4
Pase Mullipel (DI	ing KON/g	10 HVI D2030	5.0	0.0	0.1	0.4



OIL ANALYSIS REPORT

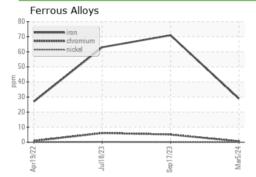


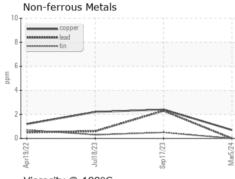


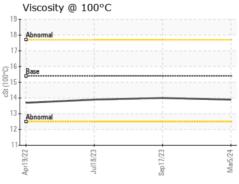
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

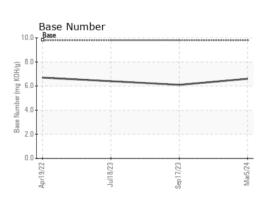
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.0	13.9	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number : 06113852

Test Package : FLEET

: GFL0115024 Unique Number : 10922685

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

: 11 Mar 2024 : 11 Mar 2024 Diagnosed

: 11 Mar 2024 - Wes Davis

GFL Environmental - 405 - Arbor Hills 7400 Napier Rd

NORTHVILLE, MI US 48168

Contact: John Nahal jnahal@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: