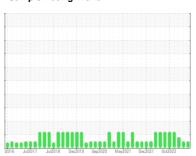


OIL ANALYSIS REPORT

Sample Rating Trend









PETRO CANADA DURON SHP 15W40 (56 QTS)

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

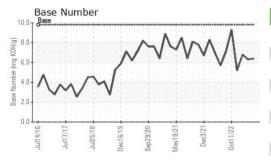
Fluid Condition

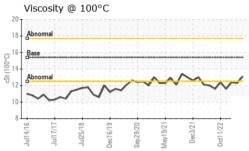
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR	MATION	method				history2
Sample Number		Client Info		GFL0093732	GFL0079042	GFL0079046
Sample Date		Client Info		25 Sep 2023	29 Jun 2023	07 Apr 2023
Machine Age	hrs	Client Info		24062	23570	576729
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1110	Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	MARGINAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	3.0
Glycol		WC Method	70.0	NEG	NEG	NEG
•	0		11 11 11			
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	46	4	4
Chromium	ppm	ASTM D5185m	>20	2	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	8	0	0
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	5	<1	1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	0	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	68	52	54
Manganese	ppm	ASTM D5185m	0	2	0	<1
Magnesium	ppm	ASTM D5185m	1010	1079	796	830
Calcium	ppm	ASTM D5185m	1070	1170	986	1017
Phosphorus	ppm	ASTM D5185m	1150	1070	869	974
Zinc	ppm	ASTM D5185m	1270	1369	1076	1161
			. = . 0			
Sulfur	ppm	ASTM D5185m	2060	3297	3257	2851
Sulfur CONTAMINAN	ppm		2060 limit/base		3257 history1	
CONTAMINAN	ppm	ASTM D5185m		3297		
Sulfur CONTAMINAN Silicon Sodium	ppm NTS ppm	ASTM D5185m method	limit/base	3297 current	history1	history2
CONTAMINAN Silicon	ppm	ASTM D5185m method ASTM D5185m	limit/base	3297 current	history1 5	history2
CONTAMINAN Silicon Sodium	ppm ITS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	limit/base	3297 current 13 16	history1 5 34	history2
CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ITS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20	3297 current 13 16 12	history1 5 34 2	history2 6 8 1
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ITS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >25 >20 limit/base >4	3297	history1 5 34 2 history1	history2 6 8 1 history2 0.2
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ITS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	limit/base >25 >20 limit/base >4	3297	history1 5 34 2 history1 0.3	history2 6 8 1 history2
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >25 >20 limit/base >4 >20	3297	history1 5 34 2 history1 0.3 9.4	history2 6 8 1 history2 0.2 7.6 16.1
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >25	3297 current 13 16 12 current 0.3 9.1 18.7	history1 5 34 2 history1 0.3 9.4 19.8	history2 6 8 1 history2 0.2 7.6



OIL ANALYSIS REPORT

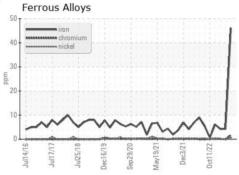


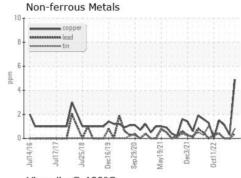


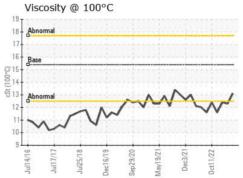
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

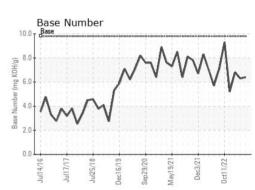
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	12.3	12.4	

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10670602 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0093732 : 05964051

Received : 28 Sep 2023 Diagnosed

: 29 Sep 2023 Diagnostician : Wes Davis

GFL Environmental - 029 - Wytheville

2390 North 4th Street Wytheville, VA US 24382

Contact: CHARLES CORVIN

charles.corvin@gflenv.com;canastasio@wearcheckusa.com T: (276)223-4476

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)

Report Id: GFL029 [WUSCAR] 05964051 (Generated: 09/29/2023 14:55:19) Rev: 1

F: (276)223-1283