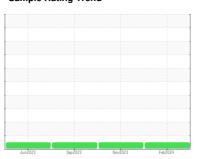


OIL ANALYSIS REPORT

Sample Rating Trend









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

DIAGNOSIS Recommendation

Tiecommendation

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

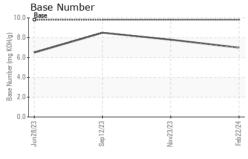
Fluid Condition

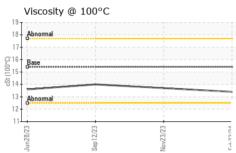
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Number	MATION	method	limit/base	current	history1	history2
Campic Number		Client Info		GFL0092974	GFL0092958	GFL0092940
Sample Date		Client Info		22 Feb 2024	23 Nov 2023	12 Sep 2023
Machine Age	hrs	Client Info		2772	2772	2707
Oil Age	hrs	Client Info		2772	2707	2707
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	20	12	11
Chromium	ppm	ASTM D5185m	>20	1	0	1
Nickel	ppm	ASTM D5185m	>5	7	3	3
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	3	1	<1
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	5	3	4
Tin	ppm	ASTM D5185m	>15	1	<1	2
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	2	0
Barium	ppm	ASTM D5185m	0	0	0	44
Molybdenum	ppm	ASTM D5185m	60	64	60	56
Manganese	ppm	AOTHER				
Manganosc	ppiii	ASTM D5185m	0	<1	0	1
Magnesium	ppm	ASTM D5185m ASTM D5185m	1010	<1 960		
•			1010		0	1
Magnesium	ppm	ASTM D5185m	1010	960	0 982	1 903
Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m	1010 1070 1150	960 1031	0 982 1089	1 903 978
Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150	960 1031 1027	0 982 1089 953	1 903 978 917
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270	960 1031 1027 1273	0 982 1089 953 1265	1 903 978 917 1144
Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base	960 1031 1027 1273 2841	0 982 1089 953 1265 2874	1 903 978 917 1144 3035
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	1010 1070 1150 1270 2060 limit/base	960 1031 1027 1273 2841 current	0 982 1089 953 1265 2874 history1	1 903 978 917 1144 3035 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	1010 1070 1150 1270 2060 limit/base	960 1031 1027 1273 2841 current	0 982 1089 953 1265 2874 history1	1 903 978 917 1144 3035 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25	960 1031 1027 1273 2841 current 7	0 982 1089 953 1265 2874 history1 5	1 903 978 917 1144 3035 history2 5 4
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25 >20	960 1031 1027 1273 2841 current 7 6	0 982 1089 953 1265 2874 history1 5 3	1 903 978 917 1144 3035 history2 5 4 6
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25 >20 limit/base	960 1031 1027 1273 2841 current 7 6 11	0 982 1089 953 1265 2874 history1 5 3	1 903 978 917 1144 3035 history2 5 4 6
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method *ASTM D7844	1010 1070 1150 1270 2060 limit/base >25 >20 limit/base	960 1031 1027 1273 2841 current 7 6 11 current	0 982 1089 953 1265 2874 history1 5 3 3 history1	1 903 978 917 1144 3035 history2 5 4 6 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m Method *ASTM D7844 *ASTM D7624 *ASTM D7415	1010 1070 1150 1270 2060 limit/base >25 >20 limit/base	960 1031 1027 1273 2841 current 7 6 11 current 0.9 9.7	0 982 1089 953 1265 2874 history1 5 3 history1 0.6 7.9	1 903 978 917 1144 3035 history2 5 4 6 history2 0.5 7.0
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m Method *ASTM D7844 *ASTM D7624 *ASTM D7415	1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >4 >20 >30	960 1031 1027 1273 2841 current 7 6 11 current 0.9 9.7 21.0	0 982 1089 953 1265 2874 history1 5 3 3 history1 0.6 7.9 19.8	1 903 978 917 1144 3035 history2 5 4 6 history2 0.5 7.0 19.0



OIL ANALYSIS REPORT

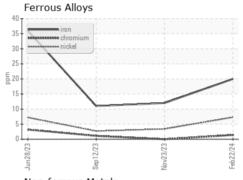


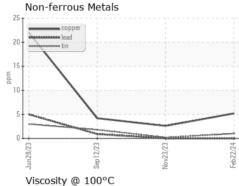


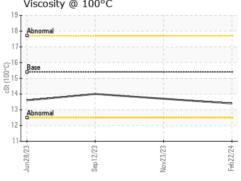
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

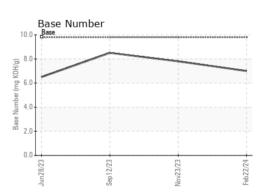
FLUID PROPERTIES		method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.7	14.0

GRAPHS











Certificate L2367

Laboratory Sample No.

Lab Number : 06105721 Unique Number : 10903951 Test Package : FLEET

: GFL0092974

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Mar 2024 **Tested**

: 01 Mar 2024 Diagnosed : 01 Mar 2024 - Wes Davis

GFL Environmental - 463 - Cheboygan 501 N. Western Ave Cheboygan, MI

US 49721 Contact: Chris Gee cgee@gflenv.com T: (231)597-8553

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)