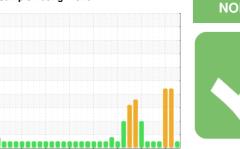


OIL ANALYSIS REPORT

Sample Rating Trend







PETRO CANADA DURON SHP 15W40 (60 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

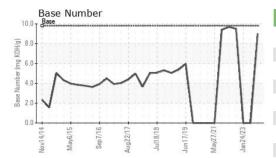
Fluid Condition

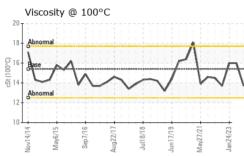
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109740	GFL0086424	GFL0072353
Sample Date		Client Info		17 Aug 2023	06 Jul 2023	24 Jan 2023
Machine Age	mls	Client Info		584788	584788	584788
Oil Age	mls	Client Info		597	579	258
Oil Changed		Client Info		Diff Oil	Changed	N/A
Sample Status				NORMAL	SEVERE	SEVERE
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	31	<u>^</u> 205	<u>194</u>
Chromium	ppm	ASTM D5185m	>20	2	12	11
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm		>2	<1	1	1
Silver		ASTM D5185m	>2	0	0	0
	ppm	ASTM D5185m	>20	3	7	6
Aluminum	ppm			2		
Lead	ppm	ASTM D5185m	>40		6	10
Copper	ppm	ASTM D5185m	>330	13	74	87
Tin	ppm	ASTM D5185m	>15	<1	4	5
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	5	7	7
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm ppm	ASTM D5185m	60	58	56	55
Molybdenum Manganese			60		56	55 3
Molybdenum	ppm	ASTM D5185m	60	58 <1 980	56 2 928	55
Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	60	58 <1 980 1104	56 2 928 1016	55 3 855 1000
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	60 0 1010 1070 1150	58 <1 980 1104 1079	56 2 928 1016 898	55 3 855 1000 831
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	60 0 1010 1070	58 <1 980 1104	56 2 928 1016 898 1170	55 3 855 1000
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	60 0 1010 1070 1150 1270 2060	58 <1 980 1104 1079	56 2 928 1016 898	55 3 855 1000 831 1050 2566
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	60 0 1010 1070 1150 1270 2060	58 <1 980 1104 1079 1267 3151 current	56 2 928 1016 898 1170 2715 history1	55 3 855 1000 831 1050 2566 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	60 0 1010 1070 1150 1270 2060	58 <1 980 1104 1079 1267 3151 current	56 2 928 1016 898 1170 2715 history1	55 3 855 1000 831 1050 2566 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	60 0 1010 1070 1150 1270 2060	58 <1 980 1104 1079 1267 3151 current	56 2 928 1016 898 1170 2715 history1 17	55 3 855 1000 831 1050 2566 history2 15
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	60 0 1010 1070 1150 1270 2060	58 <1 980 1104 1079 1267 3151 current	56 2 928 1016 898 1170 2715 history1	55 3 855 1000 831 1050 2566 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m	60 0 1010 1070 1150 1270 2060 limit/base >25	58 <1 980 1104 1079 1267 3151 current 3 0	56 2 928 1016 898 1170 2715 history1 17	55 3 855 1000 831 1050 2566 history2 15
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m	60 0 1010 1070 1150 1270 2060 limit/base >25	58 <1 980 1104 1079 1267 3151 current 3 0	56 2 928 1016 898 1170 2715 history1 17 6	55 3 855 1000 831 1050 2566 history2 15 7 <1
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m	60 0 1010 1070 1150 1270 2060 limit/base >25 >20	58 <1 980 1104 1079 1267 3151 current 3 0 current	56 2 928 1016 898 1170 2715 history1 17 6 0 history1	55 3 855 1000 831 1050 2566 history2 15 7 <1
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m	60 0 1010 1070 1150 1270 2060 limit/base >25 >20 limit/base	58 <1 980 1104 1079 1267 3151 current 3 0 current 1.3	56 2 928 1016 898 1170 2715 history1 17 6 0 history1	55 3 855 1000 831 1050 2566 history2 15 7 <1 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D76145	60 0 1010 1070 1150 1270 2060 limit/base >25 >20 limit/base	58 <1 980 1104 1079 1267 3151 current 3 0 current 1.3 5.7	56 2 928 1016 898 1170 2715 history1 17 6 0 history1	55 3 855 1000 831 1050 2566 history2 15 7 <1 history2 7.1 20.0
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D76145	60 0 1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >4 >20 >30	58 <1 980 1104 1079 1267 3151 current 3 0 0 current 1.3 5.7 19.3	56 2 928 1016 898 1170 2715 history1 17 6 0 history1 6.6 15.9 33.1	55 3 855 1000 831 1050 2566 history2 15 7 <1 history2 7.1 20.0 35.9



OIL ANALYSIS REPORT

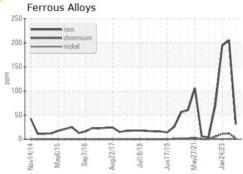


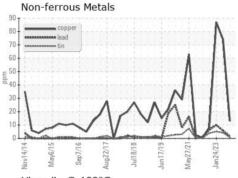


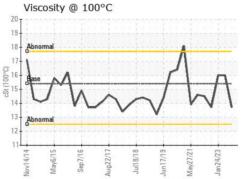
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

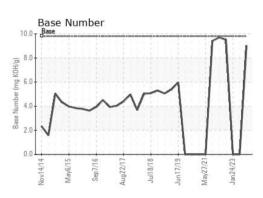
FLUID PROPERTIES		method			riistory i	riistory	
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	16.0	16.0	

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** Test Package : FLEET

: GFL0109740 : 06072473 : 10849150

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 29 Jan 2024 Diagnosed : 30 Jan 2024

Diagnostician : Wes Davis GFL Environmental - 005 - Wilson/Tri-East(CNG)

2810 Contentnea Road S Wilson, NC US 27893-8501

Contact: WALTER SKOKOWSKI

walter.skokowski@gflenv.com T:

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)

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