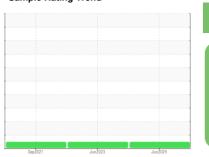


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 127008-1101

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

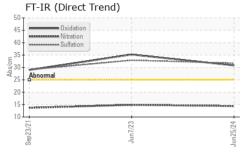
Fluid Condition

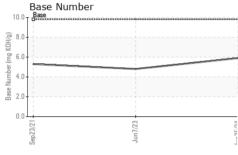
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

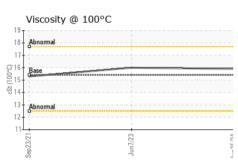
AL)		Sep	2021	Jun2023 Jun20.	24	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0054090	GFL0054108	GFL0029256
Sample Date		Client Info		25 Jun 2024	07 Jun 2023	23 Sep 2021
Machine Age	hrs	Client Info		10125	8992	76853
Oil Age	hrs	Client Info		673	600	758
Oil Changed		Client Info		Changed	Changed	Changed
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
ron	ppm	ASTM D5185m	>100	42	56	30
Chromium	ppm	ASTM D5185m	>20	2	2	2
Vickel	ppm	ASTM D5185m	>4	<1	<1	0
Γitanium	ppm	ASTM D5185m		<1	<1	1
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	4	3	4
_ead	ppm	ASTM D5185m	>40	18	26	18
Copper	ppm	ASTM D5185m	>330	3	2	2
Γin	ppm	ASTM D5185m	>15	2	3	2
Antimony	ppm	ASTM D5185m				0
/anadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	8	4	10
Barium	ppm	ASTM D5185m	0	0	2	0
بمرج ام ما مراد						
vioiybaenum	ppm	ASTM D5185m	60	84	94	75
•	ppm ppm	ASTM D5185m ASTM D5185m		84 1	94 <1	75 <1
Manganese						
Manganese Magnesium	ppm	ASTM D5185m	0	1	<1	<1
Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m	0 1010	1 1234	<1 1322	<1 1131
Manganese Magnesium Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070	1 1234 1760	<1 1322 1565	<1 1131 1382
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070 1150 1270	1 1234 1760 1458	<1 1322 1565 1433	<1 1131 1382 1214
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070 1150 1270	1 1234 1760 1458 1819	<1 1322 1565 1433 1745	<1 1131 1382 1214 1472
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070 1150 1270 2060	1 1234 1760 1458 1819 4090	<1 1322 1565 1433 1745 3703	<1 1131 1382 1214 1472 2716
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 1010 1070 1150 1270 2060	1 1234 1760 1458 1819 4090	<1 1322 1565 1433 1745 3703 history1	<1 1131 1382 1214 1472 2716 history2
Manganese Magnesium Calcium Phosphorus Zinc Gulfur CONTAMINAN Silicon Godium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	0 1010 1070 1150 1270 2060 limit/base >25	1 1234 1760 1458 1819 4090 current	<1 1322 1565 1433 1745 3703 history1	<1 1131 1382 1214 1472 2716 history2
Manganese Magnesium Calcium Phosphorus Zinc Gulfur CONTAMINAN Silicon Godium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	0 1010 1070 1150 1270 2060 limit/base >25	1 1234 1760 1458 1819 4090 current 8 3	<1 1322 1565 1433 1745 3703 history1 7	<1 1131 1382 1214 1472 2716 history2 6 6
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 1010 1070 1150 1270 2060 limit/base >25	1 1234 1760 1458 1819 4090 current 8 3	<1 1322 1565 1433 1745 3703 history1 7 2 7	<1 1131 1382 1214 1472 2716 history2 6 6 13
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 1010 1070 1150 1270 2060 limit/base >25 >20	1 1234 1760 1458 1819 4090 current 8 3 8	<1 1322 1565 1433 1745 3703 history1 7 2 7 history1	<1 1131 1382 1214 1472 2716 history2 6 6 13
Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 1010 1070 1150 1270 2060 limit/base >25 >20 limit/base	1 1234 1760 1458 1819 4090 current 8 3 8 current	<1 1322 1565 1433 1745 3703 history1 7 2 7 history1 0.8	<1 1131 1382 1214 1472 2716 history2 6 6 13 history2 0.7
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 Method *ASTM D7844 *ASTM D7624 *ASTM D76145	0 1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >3 >20	1 1234 1760 1458 1819 4090 current 8 3 8 current 0.9	<1 1322 1565 1433 1745 3703 history1 7 2 7 history1 0.8 14.9	<1 1131 1382 1214 1472 2716 history2 6 6 13 history2 0.7 13.7
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 Method *ASTM D7844 *ASTM D7624 *ASTM D76145	0 1010 1070 1150 1270 2060 limit/base >25 >20 limit/base >3 >20 >30	1 1234 1760 1458 1819 4090 current 8 3 8 current 0.9 14.4 31.7	<1 1322 1565 1433 1745 3703 history1 7 2 7 history1 0.8 14.9 32.9	<1 1131 1382 1214 1472 2716 history2 6 6 13 history2 0.7 13.7 29.1



OIL ANALYSIS REPORT



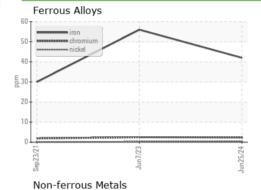




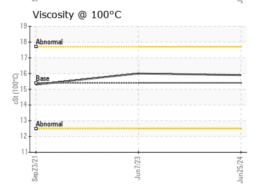
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

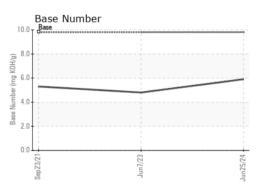
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	15.9	16.0	15.3

GRAPHS



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Sep23/21	Jun7/23	Jun25/24









Certificate 12367

Laboratory Sample No. Lab Number : 06222957

: GFL0054090 Unique Number : 11101154 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Jun 2024

Tested : 28 Jun 2024 Diagnosed

: 30 Jun 2024 - Don Baldridge

GFL Environmental - 630 - Northern A1 PA 117 Moonlite Dr Smithfield, PA

US 15478 Contact: MIKE NEWMAN miken@northerna1.com T: (231)564-2362

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)