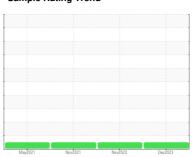


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
4707M
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (--- 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

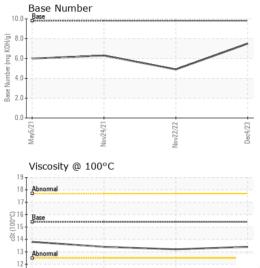
Fluid Condition

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

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SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0101517	GFL0063982	GFL0036209
Sample Date		Client Info		04 Dec 2023	22 Nov 2022	24 Nov 2021
Machine Age	hrs	Client Info		11598	8937	5999
Oil Age	hrs	Client Info		8937	5999	4289
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	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	7 U.L	NEG	NEG	NEG
	<u> </u>		11.00 11.00 0000			
WEAR METALS	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	19	89	93
Chromium	ppm	ASTM D5185m		<1	3	3
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm		>15	4	21	26
Lead	ppm	ASTM D5185m	>25	0	1	2
Copper	ppm	ASTM D5185m		<1	4	5
Tin	ppm	ASTM D5185m	>4	0	1	0
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	2	3
Barium	ppm	ASTM D5185m	0	2	2	0
Molybdenum	ppm	ASTM D5185m	60	58	62	66
Manganese	ppm	ASTM D5185m	0	0	1	1
Magnesium	ppm	ASTM D5185m	1010	874	890	1133
Calcium	ppm	ASTM D5185m	1070	1033	1123	1273
Phosphorus	ppm	ASTM D5185m	1150	924	987	1057
Zinc	ppm	ASTM D5185m	1270	1152	1221	1293
Sulfur	ppm	ASTM D5185m	2060	2857	3281	2586
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	12	9
Sodium	ppm	ASTM D5185m		3	9	9
Potassium	ppm	ASTM D5185m	>20	3	12	76
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.6	1.3	1.4
Nitration	Abs/cm	*ASTM D7624	>20	9.6	17.9	14.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	31.1	27
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	34.3	26.2
Base Number (BN)		ASTM D2896	9.8	7.5	4.9	6.3
(2.1)						0.0



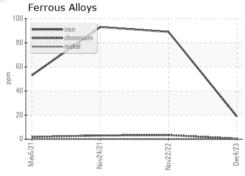
OIL ANALYSIS REPORT

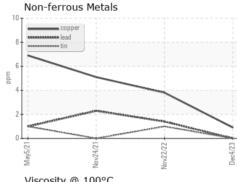


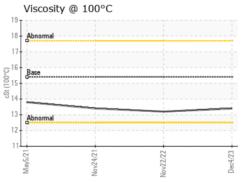
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

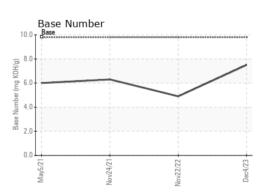
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.2	13.4

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10775880

Test Package : FLEET

: GFL0101517 : 06026089

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

: 06 Dec 2023 : 07 Dec 2023 Diagnostician : Wes Davis

GFL Environmental - 415 - Michigan East 6200 Elmridge

Sterling Heights, MI US 48313 Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

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)