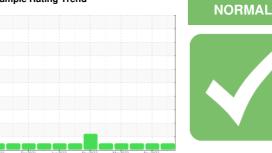


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 645M 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

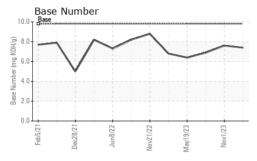
Fluid Condition

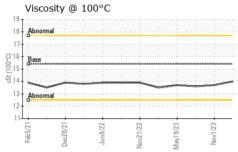
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Feb2021		Nov2022 May2023 N	ov2023	
SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0107696	GFL0096523	GFL0091482
Sample Date		Client Info		05 Mar 2024	01 Nov 2023	22 Aug 2023
Machine Age	hrs	Client Info		9621	2442	8681
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	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 META	ALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	11	37	19
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	4	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	4	4
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	<1	2	3
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium		ASTM D5185m	>10	0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm		11 12 12			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	60	62
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1050	909	987
Calcium	ppm	ASTM D5185m	1070	1179	1083	1127
Phosphorus	ppm	ASTM D5185m	1150	1007	932	1013
Zinc	ppm	ASTM D5185m	1270	1321	1215	1310
Sulfur	ppm	ASTM D5185m	2060	2968	2933	3162
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	14	5
Sodium	ppm	ASTM D5185m		2	8	6
Potassium	ppm	ASTM D5185m	>20	0	3	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5	0.8	1.1
Nitration	Abs/cm	*ASTM D7624	>20	8.4	7.9	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	20.2	20.3
FLUID DEGRA	ADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	15.6	15.8
Base Number (BN		ASTM D2896		7.4	7.6	6.9
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OIL ANALYSIS REPORT

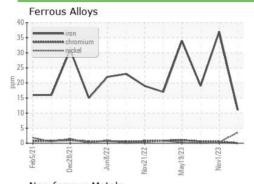


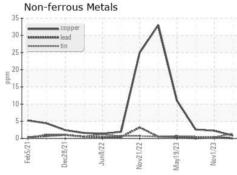


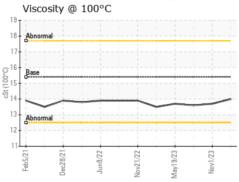
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

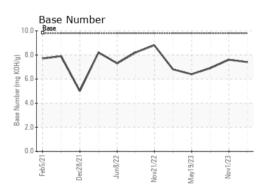
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.7	13.6

GRAPHS













Sample No.

Lab Number : 06110816 Unique Number : 10914313 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0107696 Received : 06 Mar 2024 **Tested**

: 07 Mar 2024 Diagnosed : 07 Mar 2024 - Wes Davis GFL Environmental - 465 - Pontiac

888 Baldwin Pontiac, MI US 48340

Contact: Ricky Matthews rickymathews@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)