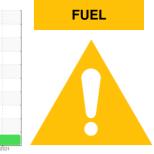


(ML7046) Machine Id 413073 Component Diesel Engine

OIL ANALYSIS REPORT

Sample Rating Trend



Fluid PETRO CANADA DURON SHP 15W40 (7 GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

Area

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

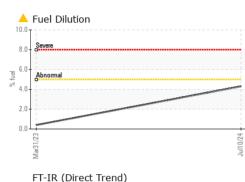
Fluid Condition

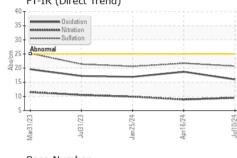
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

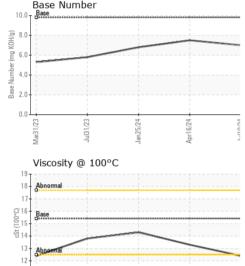
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110415	GFL0090138	GFL0090126
Sample Date		Client Info		10 Jul 2024	16 Apr 2024	25 Jan 2024
Machine Age	hrs	Client Info		4350	3717	3138
Oil Age	hrs	Client Info		633	3717	3138
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
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	>100	19	17	13
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	10	14	11
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	7	3	2
Tin	ppm	ASTM D5185m	>15	0	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	13	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	44	60
Manganese	ppm		0	2	<1	<1
Magnesium	ppm	ASTM D5185m	1010	885	920	947
Calcium	ppm	ASTM D5185m	1070	1030	1170	1077
Phosphorus	ppm	ASTM D5185m	1150	956	919	1018
Zinc	ppm	ASTM D5185m	1270	1189	1062	1211
Sulfur	ppm	ASTM D5185m	2060	2974	2982	2524
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	7	4
Sodium	ppm	ASTM D5185m		5	2	2
Potassium	ppm	ASTM D5185m	>20	13	34	21
Fuel	%	ASTM D3524	>5	4 .3	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.3	0.5
Nitration	Abs/cm	*ASTM D7624		9.5	8.9	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	21.7	20.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	18.7	16.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.0	7.5	6.8



OIL ANALYSIS REPORT







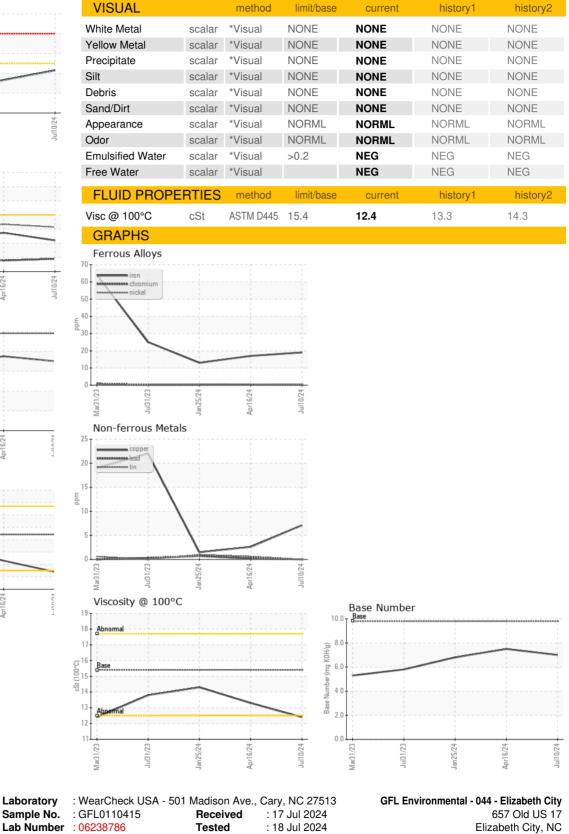
Jan 25/24

Apr16/24

Laboratory

Jul31/23

Mar31/23



Unique Number : 11127620 Diagnosed : 18 Jul 2024 - Wes Davis Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel) Certificate 12367 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)

US 27909 Contact: TOM BAIRD tom.baird@gflenv.com T: (252)562-2645 F: (252)264-4411

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Submitted By: TOM BAIRD

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