

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id
4620M
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (36 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

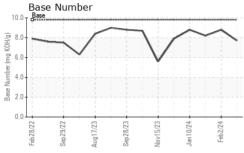
Fluid Condition

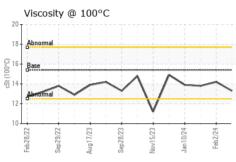
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

OAMBLE WEST	MATICE		11 1-7			
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110155	GFL0110084	GFL0109984
Sample Date		Client Info		13 Feb 2024	02 Feb 2024	23 Jan 2024
Machine Age	hrs	Client Info		22366	22266	22200
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
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	>90	9	8	7
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	0	0
Tin	ppm	ASTM D5185m	>15	<1	0	<1
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	<1	2	2
Barium	ppm	ASTM D5185m	0	0	5	<1
Molybdenum	ppm	ASTM D5185m	60	52	55	53
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	1010	884	890	831
Calcium	ppm	ASTM D5185m	1070	925	946	903
Phosphorus	ppm	ASTM D5185m	1150	967	898	939
Zinc	ppm	ASTM D5185m	1270	1174	1155	1116
Sulfur	ppm	ASTM D5185m	2060	2903	2937	2650
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	7
Sodium	ppm	ASTM D5185m		3	0	4
Potassium	ppm	ASTM D5185m	>20	1	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.5	0	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.8	4.5	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	17.8	18.9
FLUID DEGRAE	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	13.1	15.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	8.8	8.2
(=/•)	39					



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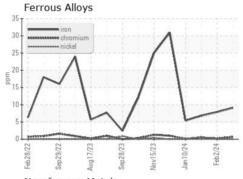


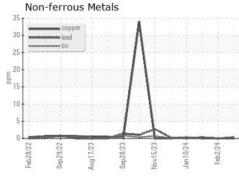


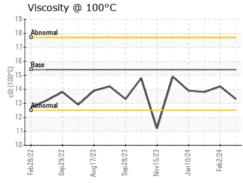
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

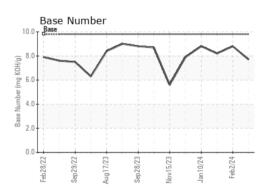
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	14.2	13.8

GRAPHS













Laboratory Sample No.

: GFL0110155 Lab Number : 06091537

Unique Number : 10884390 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Feb 2024

Diagnosed

Tested : 19 Feb 2024 : 19 Feb 2024 - Wes Davis

GFL Environmental - 410 - Michigan West 39000 Van Born Rd Wayne, MI

US 48184 Contact: Belal Dgheish bdgheish@gflenv.com

T: (734)714-2340

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)