

OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
2341
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (56 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

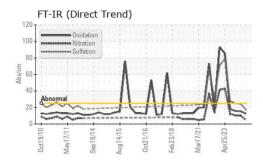
Fluid Condition

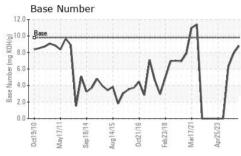
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

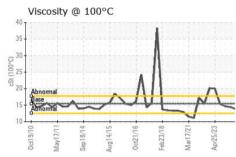
Sample Number	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Client Info						•	
Machine Age mls Client Info 0 1073066 Nada Nada							
Oil Age mls Client Info 0 1073066 1073066 1073066 Oil Changed Sample Status Client Info Changed N/A NA Changed Changed N/A Changed NA CONTAMINATION method limit/base current history1 history2 Fuel WC Method >3.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0		mls			•		
Client Info Changed NORMAL NORMAL NORMAL NORMAL							
CONTAMINATION	-				-		
Fuel	-						Ü
Fuel		ON	method	limit/base			
Water Glycol WC Method WC Method >0.2 NEG NEG NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >120 4 78 67 Chromium ppm ASTM D5185m >20 0 3 2 Nickel ppm ASTM D5185m >5 0 <1	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
WEAR METALS	Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >120 4 78 67 Chromium ppm ASTM D5185m >20 0 3 2 Nickel ppm ASTM D5185m >2 0 <1					-		
Irron			method	limit/base	current	history1	history2
Chromium							
Nickel	-				-		
Titanium					-		
Silver							
Aluminum							
Lead							
Copper ppm ASTM D5185m >330 0 4 4 Tin ppm ASTM D5185m >15 0 1 <1							
Tin							
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 3 3 5 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 1 Manganese ppm ASTM D5185m 0 0 <1 <1 Magnesium ppm ASTM D5185m 1070 1148 1058 1065 Phosphorus ppm ASTM D5185m 1270 1291 1177 1230 Sulfur ppm ASTM D5185m 2060 3662 2884 2888 CONTAMINANTS method limit/base current history1 histo					-		
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INFRA-RED		ppm	ASTM D5185m		0	1	2
Soot % % *ASTM D7844 >4 0.5 3.3 3.6 Nitration Abs/cm *ASTM D7624 >20 4.9 10.0 10.3 Sulfation Abs/.1mm *ASTM D7415 >30 17.4 24.2 24.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 12.5 15.4 15.6	Potassium	ppm	ASTM D5185m	>20	0	0	0
Nitration Abs/cm *ASTM D7624 >20 4.9 10.0 10.3 Sulfation Abs/.1mm *ASTM D7415 >30 17.4 24.2 24.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 12.5 15.4 15.6	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 17.4 24.2 24.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 12.5 15.4 15.6	Soot %	%	*ASTM D7844	>4	0.5	3.3	3.6
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 12.5 15.4 15.6	Nitration	Abs/cm	*ASTM D7624	>20	4.9	10.0	10.3
Oxidation Abs/.1mm *ASTM D7414 >25 12.5 15.4 15.6	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	24.2	24.8
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	12.5	15.4	15.6
		mg KOH/g	ASTM D2896	9.8	8.8	7.9	6.3



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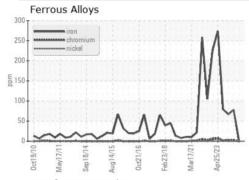


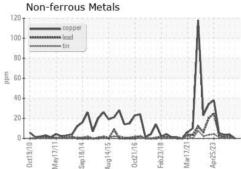


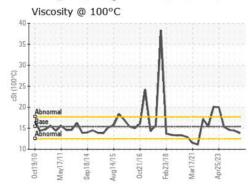
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

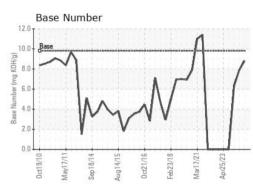
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	14.4	14.6

GRAPHS













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0115978 Lab Number : 06187473 Unique Number : 11044225

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 May 2024 **Tested** : 23 May 2024

Diagnosed : 23 May 2024 - Wes Davis

GFL Environmental - 018 - Fayetteville

4621 Marracco Drive Hope Mills, NC US 28348

Contact: Robert Carter robert.carter@gflenv.com T: (910)596-1170

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)

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