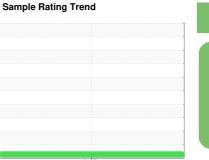


OIL ANALYSIS REPORT









PETRO CANADA DURO

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a components first oil change.

Contamination

There is no indication of any contamination in the

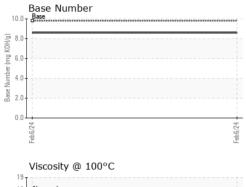
Fluid Condition

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

SAMPLE INFORMATION	N SHP 15W40 (- GAL)					
Company Comp	`		mathad			hiotomit	history/2
Company Comp		WATION		ilmit/base		nistory i	nistoryz
Machine Age hrs Client Info 10407 Did Qag hrs Client Info 10407 Did Changed Client Info Not Changd Did Changd Client Info Not Changd Did Ch	•						
Dit Changed	•						
Client Info Not Changd Client Info Not Changd Client Info NoRMAL CONTAMINATION Method Imit/base current Contamination							
CONTAMINATION method limit/base current history1 history2 valer WC Method So.2 NEG NEG Silycol WC Method NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG NEG	•	hrs					
CONTAMINATION method limit/base current history1 history2			Client Info				
Valer	·				NORMAL		
Weight Wideling	CONTAMINAT	ION	method	limit/base	current	history1	history2
WC Method NEG	Fuel		WC Method	>3.0	<1.0		
WEAR METALS method limit/base current history1 history2 Yorn ppm ASTM D5185m >200 17 Schromium ppm ASTM D5185m >20 1 Jickel ppm ASTM D5185m >2 0 Silver ppm ASTM D5185m >2 0 Aluminum ppm ASTM D5185m >30 11 Lead ppm ASTM D5185m >30 1 Lead ppm ASTM D5185m >30 3 Copper ppm ASTM D5185m >15 <1	Water		WC Method	>0.2	NEG		
Con	Glycol		WC Method		NEG		
ASTM D5185m Part	WEAR METAL	S	method	limit/base	current	history1	history2
Side Pom ASTM D5185m Pom P	Iron	ppm	ASTM D5185m	>200	17		
Silver	Chromium	ppm	ASTM D5185m	>20	1		
Silver	Nickel	ppm	ASTM D5185m	>2	0		
ASTM D5185m S30	Titanium	ppm	ASTM D5185m	>2	0		
December December	Silver	ppm	ASTM D5185m	>2			
Description	Aluminum	ppm	ASTM D5185m	>30	11		
Sin	Lead	ppm	ASTM D5185m	>30	0		
Anadium	Copper	ppm	ASTM D5185m	>30	3		
ADDITIVES	Tin	ppm		>15			
ADDITIVES	Vanadium	ppm	ASTM D5185m		0		
Soron ppm ASTM D5185m 0 4	Cadmium	ppm	ASTM D5185m		0		
Starium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 60 56 Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 1010 916 Calcium ppm ASTM D5185m 1070 1033 Phosphorus ppm ASTM D5185m 1150 1062 Vinc ppm ASTM D5185m 1270 1246 Sulfur ppm ASTM D5185m 2060 2972 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 5 Potassium ppm ASTM D5185m >20 2 Potassium ppm ASTM D5185m >20 2 Potassium ppm ASTM D518	Boron	ppm	ASTM D5185m	0	4		
Manganese ppm ASTM D5185m 0 <1 Magnesium ppm ASTM D5185m 1010 916 Calcium ppm ASTM D5185m 1070 1033 Phosphorus ppm ASTM D5185m 1150 1062 Zinc ppm ASTM D5185m 1270 1246 Sulfur ppm ASTM D5185m 2060 2972 CONTAMINANTS method limit/base current history1 history2 Soliticon ppm ASTM D5185m >30 5 Soliticon ppm ASTM D5185m >20 2 Potassium ppm ASTM D5185m >20 2 INFRA-RED method limit/base current history1 history2 Solf acity *ASTM D7624 >2	Barium	ppm	ASTM D5185m	0	0		
Magnesium ppm ASTM D5185m 1010 916 Calcium ppm ASTM D5185m 1070 1033 Phosphorus ppm ASTM D5185m 1150 1062 Cinc ppm ASTM D5185m 1270 1246 Sulfur ppm ASTM D5185m 2060 2972 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 5 Sodium ppm ASTM D5185m >20 2 Potassium ppm ASTM D5185m >20 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 6.2 Sulfation Abs/cm *ASTM D7414 <td>Molybdenum</td> <td>ppm</td> <td>ASTM D5185m</td> <td>60</td> <td>56</td> <td></td> <td></td>	Molybdenum	ppm	ASTM D5185m	60	56		
Calcium ppm ASTM D5185m 1070 1033 Phosphorus ppm ASTM D5185m 1150 1062 Cinc ppm ASTM D5185m 1270 1246 Sulfur ppm ASTM D5185m 2060 2972 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 5 Sodium ppm ASTM D5185m 1 Potassium ppm ASTM D5185m >20 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.8 FLUID DEGRADATION method limit/base current	Manganese	ppm	ASTM D5185m	0	<1		
Phosphorus	Magnesium	ppm	ASTM D5185m	1010	916		
Contamination Contaminatio Contamination Contamination Contamination Contamination	Calcium	ppm	ASTM D5185m	1070	1033		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 5 Sodium ppm ASTM D5185m 1 Potassium ppm ASTM D5185m >20 2 INFRA-RED method limit/base current history1 history2 Goot % % *ASTM D7844 >3 0.5 Sulfation Abs/cm *ASTM D7624 >20 6.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.8	Phosphorus	ppm	ASTM D5185m	1150	1062		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 5 Sodium ppm ASTM D5185m 1 Potassium ppm ASTM D5185m >20 2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 Silitration Abs/cm *ASTM D7624 >20 6.2 Sulfation Abs/.1mm *ASTM D7415 >30 18.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.8	Zinc	ppm	ASTM D5185m	1270	1246		
Solicon ppm ASTM D5185m >30 5	Sulfur	ppm	ASTM D5185m	2060	2972		
Sodium ppm ASTM D5185m 1	CONTAMINAN	TS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 2 INFRA-RED method limit/base current history1 history2 Boot % % *ASTM D7844 >3 0.5 Sultration Abs/cm *ASTM D7624 >20 6.2 Sulfation Abs/.1mm *ASTM D7415 >30 18.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.8	Silicon	ppm	ASTM D5185m	>30	5		
INFRA-RED	Sodium	ppm	ASTM D5185m		1		
Soot % % *ASTM D7844 >3 0.5 Vitration Abs/cm *ASTM D7624 >20 6.2 Sulfation Abs/.1mm *ASTM D7415 >30 18.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.8	Potassium	ppm	ASTM D5185m	>20	2		
Abs/cm *ASTM D7624 >20 6.2 Sulfation Abs/.1mm *ASTM D7415 >30 18.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.8	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 18.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.8	Soot %	%	*ASTM D7844	>3	0.5		
FLUID DEGRADATION method limit/base current history1 history2 Dividation Abs/.1mm *ASTM D7414 >25 13.8	Nitration	Abs/cm	*ASTM D7624	>20	6.2		
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8		
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8		
	Base Number (BN)		ASTM D2896	9.8	8.6		



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPE	RTIES	method	limit/base	current	history1	history2

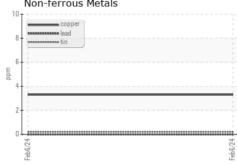
18 - Abnor	mal	 	
17-			
© 16 - Base 8 15 -		 	
₹ 14.		 	
13 - Abnor	mal		
12			

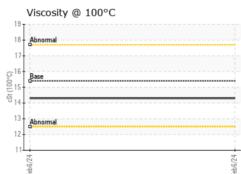
Visc @ 100°C 14.3 cSt ASTM D445 15.4

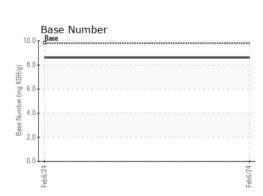
Ferrous Alloys

GRAPHS

Non-ferrous Metals









Certificate L2367

Laboratory Sample No.

: GFL0110139 Lab Number : 06085772 Unique Number : 10873217 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Feb 2024 Tested : 13 Feb 2024 Diagnosed

: 13 Feb 2024 - Wes Davis

GFL Environmental - 468 - Dearborn

3051 Schaefer Rd Dearborn, MI US 48126 Contact:

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)

T:

F: