

# **OIL ANALYSIS REPORT**

#### **Sample Rating Trend**







# TAYLOR JLS900L FL-34 (S/N 17495)

Component

Diesel Engine

PETRO CANADA DURON HP 15W40 (--- LTR)

## 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

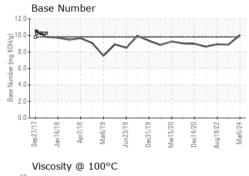
### **Fluid Condition**

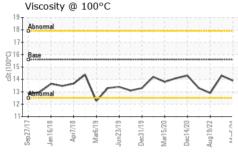
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Number         Client Info         PCA0094329         PCA0066221         PCA00           Sample Date         Client Info         05 Mar 2024         04 Nov 2022         19 Aug           Machine Age         hrs         Client Info         9756         8633         8392           Oil Age         hrs         Client Info         500         500         640           Oil Changed         Client Info         Changed         Changed         Changed           Sample Status         NORMAL         NORMAL         NORMAL         NORMAL           CONTAMINATION         method         limit/base         current         history1         his           Fuel         WC Method         >5         <1.0         <1.0         <1.0           Water         WC Method         >0.2         NEG         NEG         NEG           Glycol         WC Method         NEG         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         his           Iron         ppm         ASTM D5185m         >100         12         5         7           Chromium         ppm         ASTM D5185m         >20         2	2022 ed AL story2										
Sample Date         Client Info         05 Mar 2024         04 Nov 2022         19 Aug           Machine Age         hrs         Client Info         9756         8633         8392           Oil Age         hrs         Client Info         500         500         640           Oil Changed         Client Info         Changed         Changed         Changed           Sample Status         NORMAL         NORMAL         NORMAL         NORMAL           CONTAMINATION         method         limit/base         current         history1         his           Fuel         WC Method         >5         <1.0         <1.0         <1.0         <1.0           Water         WC Method         NEG         NEG         NEG         NEG         NEG           Glycol         WC Method         NEG         NEG         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         his           Iron         ppm         ASTM D5185m         >100         12         5         7           Chromium         ppm         ASTM D5185m         >20         2         <1         <1           Nickel         ppm<	ed AL story2										
Sample Date         Client Info         05 Mar 2024         04 Nov 2022         19 Aug           Machine Age         hrs         Client Info         9756         8633         8392           Oil Age         hrs         Client Info         500         500         640           Oil Changed         Changed         Changed         Changed         Changed         Changed           Sample Status         NORMAL         NORMAL         NORMAL         NORMAL         NORMAL           CONTAMINATION         method         limit/base         current         history1         his           Fuel         WC Method         >5         <1.0         <1.0         <1.0         <1.0           Water         WC Method         NEG         NEG         NEG         NEG           Glycol         WC Method         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         his           Iron         ppm         ASTM D5185m         >100         12         5         7           Chromium         ppm         ASTM D5185m         >20         2         <1         <1           Nickel         ppm         A	ed AL story2										
Machine Age         hrs         Client Info         9756         8633         8392           Oil Age         hrs         Client Info         500         500         640           Oil Changed         Client Info         Changed         Changed         Changed         Changed           Sample Status         NORMAL         NORMAL         NORMAL         NORMAL         NORMAL           CONTAMINATION         method         limit/base         current         history1         history1           Fuel         WC Method         >5         <1.0         <1.0         <1.0           Water         WC Method         NEG         NEG         NEG           Glycol         WC Method         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         his           Iron         ppm         ASTM D5185m         >100         12         5         7           Chromium         ppm         ASTM D5185m         >20         2         <1         <1           Nickel         ppm         ASTM D5185m         >4         <1         0         <1           Titanium         ppm         ASTM D5185m	ed AL story2										
Oil Age         hrs         Client Info         500         500         640           Oil Changed         Client Info         Changed         Call         Changed         Call         Cal	AL story2										
CONTAMINATION         method         limit/base         current         history1         his           Fuel         WC Method         >5         <1.0         <1.0         <1.0         <1.0           Water         WC Method         >0.2         NEG         NEG         NEG         NEG           Glycol         WC Method         NEG         NEG         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         his           Iron         ppm         ASTM D5185m         >100         12         5         7           Chromium         ppm         ASTM D5185m         >20         2         <1         <1           Nickel         ppm         ASTM D5185m         >4         <1         0         <1           Silver         ppm         ASTM D5185m         >3         0         0         1           Aluminum         ppm         ASTM D5185m         >20         2         <1         3           Lead         ppm         ASTM D5185m         >330         1         <1         <1           Tin         ppm         ASTM D5185m         >15         <1         <1 <th>AL story2</th>	AL story2										
CONTAMINATION         method         limit/base         current         history1         his           Fuel         WC Method         >5         <1.0         <1.0         <1.0         <1.0           Water         WC Method         >0.2         NEG         NEG         NEG         NEG           Glycol         WC Method         NEG         NEG         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         his           Iron         ppm         ASTM D5185m         >100         12         5         7           Chromium         ppm         ASTM D5185m         >20         2         <1         <1           Nickel         ppm         ASTM D5185m         >4         <1         0         <1           Silver         ppm         ASTM D5185m         >3         0         0         1           Aluminum         ppm         ASTM D5185m         >20         2         <1         3           Lead         ppm         ASTM D5185m         >330         1         <1         <1           Tin         ppm         ASTM D5185m         >15         <1         <1 <th>story2</th>	story2										
Fuel         WC Method         >5         <1.0	à										
Water         WC Method         >0.2         NEG         NEG         NEG           Glycol         WC Method         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         his           Iron         ppm         ASTM D5185m         >100         12         5         7           Chromium         ppm         ASTM D5185m         >20         2         <1         <1           Nickel         ppm         ASTM D5185m         >4         <1         0         <1           Titanium         ppm         ASTM D5185m         >3         0         0         1           Aluminum         ppm         ASTM D5185m         >20         2         <1         3           Lead         ppm         ASTM D5185m         >40         7         2         2           Copper         ppm         ASTM D5185m         >330         1         <1         <1           Tin         ppm         ASTM D5185m         >15         <1         <1         <1           Vanadium         ppm         ASTM D5185m         0         0         0         0           ADD	à										
Glycol         WC Method         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         his           Iron         ppm         ASTM D5185m         >100         12         5         7           Chromium         ppm         ASTM D5185m         >20         2         <1	à										
WEAR METALS         method         limit/base         current         history1         history1           Iron         ppm         ASTM D5185m         >100         12         5         7           Chromium         ppm         ASTM D5185m         >20         2         <1											
Iron         ppm         ASTM D5185m         >100         12         5         7           Chromium         ppm         ASTM D5185m         >20         2         <1         <1           Nickel         ppm         ASTM D5185m         >4         <1         0         <1           Titanium         ppm         ASTM D5185m         >3         0         0         1           Silver         ppm         ASTM D5185m         >3         0         0         1           Aluminum         ppm         ASTM D5185m         >20         2         <1         3           Lead         ppm         ASTM D5185m         >40         7         2         2           Copper         ppm         ASTM D5185m         >330         1         <1         <1         <1           Tin         ppm         ASTM D5185m         >15         <1         <1         <1         1           Vanadium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         limit/base         current         history1         his	story2										
Chromium         ppm         ASTM D5185m         >20         2         <1         <1           Nickel         ppm         ASTM D5185m         >4         <1         0         <1           Titanium         ppm         ASTM D5185m         <1         0         0         0           Silver         ppm         ASTM D5185m         >3         0         0         1           Aluminum         ppm         ASTM D5185m         >20         2         <1         3           Lead         ppm         ASTM D5185m         >40         7         2         2         2           Copper         ppm         ASTM D5185m         >330         1         <1         <1         <1           Tin         ppm         ASTM D5185m         >15         <1         <1         <1         1           Vanadium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         limit/base         current         history1         his											
Nickel         ppm         ASTM D5185m         >4         <1         0         <1           Titanium         ppm         ASTM D5185m         <1											
Titanium         ppm         ASTM D5185m         <1         0         0           Silver         ppm         ASTM D5185m         >3         0         0         1           Aluminum         ppm         ASTM D5185m         >20         2         <1											
Silver         ppm         ASTM D5185m         >3         0         0         1           Aluminum         ppm         ASTM D5185m         >20         2         <1         3           Lead         ppm         ASTM D5185m         >40         7         2         2         2           Copper         ppm         ASTM D5185m         >330         1         <1         <1         <1           Tin         ppm         ASTM D5185m         >15         <1         <1         1         1           Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         limit/base         current         history1         his											
Aluminum         ppm         ASTM D5185m         >20         2         <1         3           Lead         ppm         ASTM D5185m         >40         7         2         2         2           Copper         ppm         ASTM D5185m         >330         1         <1											
Lead         ppm         ASTM D5185m         >40         7         2         2           Copper         ppm         ASTM D5185m         >330         1         <1         <1           Tin         ppm         ASTM D5185m         >15         <1         <1         1           Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         limit/base         current         history1         his											
Copper         ppm         ASTM D5185m         >330         1         <1         <1         <1           Tin         ppm         ASTM D5185m         >15         <1											
Tin         ppm         ASTM D5185m         >15         <1         <1         1           Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0         0           ADDITIVES         method         limit/base         current         history1         his											
Vanadium         ppm         ASTM D5185m         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         his											
Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         his											
ADDITIVES method limit/base current history1 his											
<b>Boron</b> ppm ASTM D5185m <b>4</b> 3 4	tory2										
Barium         ppm         ASTM D5185m         0         0         0											
Molybdenum         ppm         ASTM D5185m         54         56         53											
Manganese         ppm         ASTM D5185m         <1         <1         <1											
Magnesium         ppm         ASTM D5185m         865         910         830											
Calcium         ppm         ASTM D5185m         983         1165         943											
Phosphorus         ppm         ASTM D5185m         986         935         878											
Zinc         ppm         ASTM D5185m         1124         1170         1083	3										
Sulfur         ppm         ASTM D5185m         3163         3447         2738	)										
CONTAMINANTS method limit/base current history1 his	tory2										
Silicon         ppm         ASTM D5185m         >25         6         2         3											
Sodium         ppm         ASTM D5185m         1         <1         <1											
Potassium         ppm         ASTM D5185m         >20         2         0         0											
INFRA-RED method limit/base current history1 his	tory2										
Soot %											
<b>Nitration</b> Abs/cm *ASTM D7624 > 20 <b>5.6</b> 6.1 6.5											
Sulfation         Abs/.1mm         *ASTM D7415         >30         17.7         19.7         18.5											
FLUID DEGRADATION method limit/base current history1 history2											
Oxidation Abs/.1mm *ASTM D7414 >25 <b>13.7</b> 14.8 14.0											
Oxidation A03/.111111 A011/101/414 >25 13.7 14.0 14.0	1										



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VISUAL		method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT	
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	
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	NEG	

FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.6	13.9	14.3	12.9

'	/ISC	@ 1	00°C		C	St	AS	IM D	445	15.6		13	3.9			14.3			12.	9	
	GF	RAP	HS																		
	Iro	n (p	pm)									Lea	ad (p	pm)							
250	Seve	ere					H	П	H		10	Smi	ere	] [							
	Į.																				
E 150	Abn	ormal					-			-	Ed 4	Abr	ormal	-				-		-	_
50	-								~		2	0									
0	117	118	18	119	119	119	120 H	- OZ/	122	74		0 1	8	18	- EL	119	119	/20 <del> </del>	720	727	<b>√</b> 4√
	Sep27/17	Jan16/18	Apr7/18	Mar6/19	Jun23/19	Dec31/19	Mar15/20	Dec14/20	Aug19/22	Mar5/24		Sep27/17	Jan16/18	Apr7/18	Mar6/19	Jun23/19	Dec31/19	Mar15/20	Dec14/20	Aug19/22	Mar5/24
	Alu	min	um (	ppm)	)						-		romi	um (	ppm	)					
50 40	Seve	ere				П	П	П	H		51	Sev	ere	1 1							
											2										
E 30	Abn	ormal		-		-	+	++	+	-	E 2	Abr	normal	+			-		-	-	-
10	1										1	11									
0	Sep27/17	8/18	Apr7/18 -	Mar6/19	3/19	61/1	5/20	4/20	9/22	Mar5/24			Jan16/18	Apr7/18	Mar6/19 -	3/19	61/1	5/20	4/20	3/22	Mar5/24
	Sep2	Jan16/18	Apr	Mari	Jun23/19	Dec31/19	Mar15/20	Dec14/20	Aug19/22	Mar		Sep27/17	Janl	Apr	Mari	Jun23/19	Dec31/19	Mar15/20	Dec14/20	Aug19/22	Mar
400			(ppr	n)							81			(ppm	1)						
300	Seve	ormal							+		6		ele								
											E 4										
틆 200												Abr	ormal								
100											2										_
0	Sep27/17	Jan16/18 -	Apr7/18	Mar6/19 -	Jun23/19 -	1/19	5/20	4/20	9/22	Mar5/24		Sep27/17	Jan 16/18	Apr7/18	Mar6/19	Jun23/19	1/19	5/20	4/20	9/22	Mar5/24
	Sep2	Jan	Apr	Mar	Jun2	Dec31/19	Mar15/20	Dec14/20	Aug19/22	Mar		Sep2	Jan1	Apr	Mar	Jun2	Dec31/19	Mar15/20	Dec14/20	Aug19/22	Mar
20		cosit	у @	100°	С						_12.		se N	umbe	er						
18	Abn	ormal									(B/H)	Bas	e	-							
CSt (100°C)	Bas	e		<u> </u>			1.1.	<u> </u>	1		mg 8.1	0			$\vee$	$\widetilde{}$					
	Abn	effinal		1		_	~		_	^	Base Number (mg KOH/g)	0									
12								H			98 2.1 0.1	0									
10	71/72	81/9	81/718	e1/9as	23/19	31/19	15/20	14/20	19/22	ar5/24	U.	71/72	81/9	81/718	ar6/19 +	23/19	31/19	15/20	14/20	19/22	ar5/24





Certificate L2367

Laboratory

Lab Number : 06117321 Unique Number : 10926154 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : PCA0094329

Received **Tested** Diagnosed

: 13 Mar 2024 : 14 Mar 2024

: 14 Mar 2024 - Wes Davis

SCRAP METAL SERVICES (SMS Mill Services LLC)

250 WEST U.S. HWY 12 CHESTERTON, IN US 46304

Contact: DOMINIC WHITE dwhite@scrapmetalservices.com

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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F: