

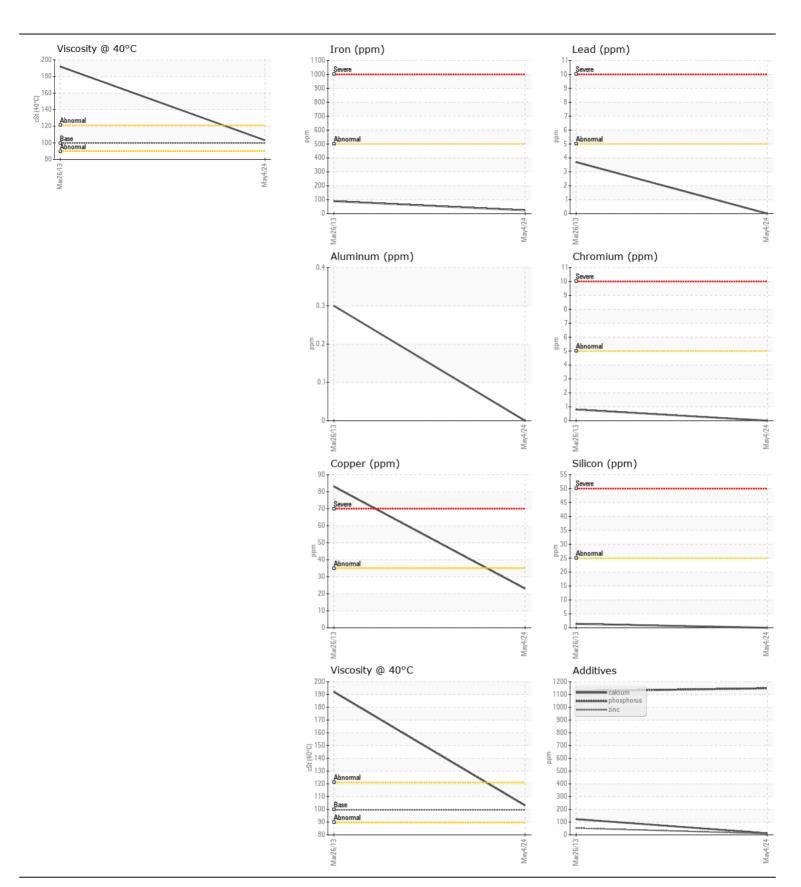
**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 



Machine Id **LIEBHERR LB28 115540** 

Component
2 Slewing Gearbox

Test	PETRO CANADA TRAXON 75	W90 SYNTH	ETIC	(11 GAL	.)			
Sample Date   Client Info   1997   1990	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date   Client Info   10   100   20   10   10   10   10   1		Sample Number		Client Info		LH0291208	LH0070720	
Cil Age		Sample Date		Client Info		04 May 2024	26 Mar 2013	
Filter Age		Machine Age	hrs	Client Info		12022	1990	
Cil Changed   Cilent Info   Changed   Change		Oil Age	hrs	Client Info		0	0	
Filter Changed   Changed		Filter Age	hrs	Client Info		0	0	
Normal   N		Oil Changed		Client Info		Changed	Changed	
Iron		Filter Changed		Client Info		Changed	Changed	
Chromium   ppm   ASTM D5565m   5   0   1		Sample Status				NORMAL	NORMAL	
Nickel   ppm   ASTM DS(85m)   >5   0   <1	WEAR	Iron	ppm	ASTM D5185(m)	>500	23	89	
Nickel   ppm   ASTM D5885m   >5   0   <1       Titanium   ppm   ASTM D5885m   0   0   0       Silver   ppm   ASTM D5885m   0   0   <1       Aluminum   ppm   ASTM D5885m   0   0   <1       Aluminum   ppm   ASTM D5885m   >5   0   4       Aluminum   ppm   ASTM D5885m   >5   0   4       Copper   ppm   ASTM D5885m   >5   0   4       Copper   ppm   ASTM D5885m   >5   0   4       Copper   ppm   ASTM D5885m   >5   2   3   83       Tin   ppm   ASTM D5885m   >5   <1   3   3       Vanadium   ppm   ASTM D5885m   >5   <1   3   3       Vanadium   ppm   ASTM D5885m   >5   <1   3   3       Vanadium   ppm   ASTM D5885m   >5   <1   3   3       Valow Metal   scalar   Visual*   NONE   NONE   VIITE       Valow Metal   scalar   Visual*   NONE   NONE   NONE   NONE   NONE     Valow Metal   scalar   Visual*   NONE   NONE   NONE   NONE   NONE     Valow Metal   scalar   Visual*   NONE   NO	All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>5	0	<1	
Silver   S		Nickel	ppm	ASTM D5185(m)	>5	0	<1	
Aluminum   ppm   ASTM DS185 m		Titanium	ppm	ASTM D5185(m)		0	0	
Lead		Silver	ppm	ASTM D5185(m)		0	<1	
Copper		Aluminum	ppm	ASTM D5185(m)		0	<1	
Tin		Lead	ppm	ASTM D5185(m)	>5	0	4	
Vanadium   ppm   ASTM D5185(m)     0   0		Copper	ppm	ASTM D5185(m)	>35	23	83	
White Metal   Scalar   Visual*   NONE   NO		Tin	ppm	ASTM D5185(m)	>5	<1	3	
Yellow Metal   scalar   Visual*   NONE   N		Vanadium	ppm	ASTM D5185(m)		0	0	
Silicon   ppm   ASTM D5185(m)   >25   0   1		White Metal	scalar	Visual*	NONE	NONE	VLITE	
Potassium   ppm   ASTM 05185(m)   >20   <1   2		Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Potassium   ppm   ASTM 05185(m)   >20   <1   2	CONTAMINATION	Silicon	maa	ASTM D5185(m)	>25	0	1	
Water   WC Method   >0.2   NEG   NEG							2	
Silt			1-1-					
Debris   Scalar   Visual*   NONE   VLITE   Sand/Dirt   Scalar   Visual*   NONE   NORML   NORM		Silt	scalar		NONE	NONE	VLITE	
Appearance   Scalar   Visual*   NORML   NORM		Debris		Visual*		VLITE	VLITE	
Odor		Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Emulsified Water   scalar   Visual*   >0.2   NEG   NEG		Appearance	scalar	Visual*	NORML	NORML	NORML	
Sodium   ppm   ASTM D5185(m)   Calcium   ppm   ASTM D5185(m)   328   301   3		Odor	scalar	Visual*	NORML	NORML	NORML	
Boron   ppm   ASTM D5185(m)   328   301   3		Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
Boron   ppm   ASTM D5185(m)   328   301   3	FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		<1	1	
Barium       ppm       ASTM D5185(m)       1       0       1          Molybdenum       ppm       ASTM D5185(m)       0       <1		Boron	ppm	ASTM D5185(m)	328	301	3	
Manganese         ppm         ASTM D5185(m)         0         2            Magnesium         ppm         ASTM D5185(m)         1         1         9            Calcium         ppm         ASTM D5185(m)         7         13         123            Phosphorus         ppm         ASTM D5185(m)         1145         1149         1126            Zinc         ppm         ASTM D5185(m)         3         9         53            Sulfur         ppm         ASTM D5185(m)         17909         19920         26154	The condition of the on is acceptable for the time in service.	Barium	ppm	ASTM D5185(m)	1	0	1	
Magnesium         ppm         ASTM D5185(m)         1         1         9            Calcium         ppm         ASTM D5185(m)         7         13         123            Phosphorus         ppm         ASTM D5185(m)         1145         1149         1126            Zinc         ppm         ASTM D5185(m)         3         9         53            Sulfur         ppm         ASTM D5185(m)         17909         19920         26154		Molybdenum	ppm	ASTM D5185(m)		0	<1	
Calcium         ppm         ASTM D5185(m)         7         13         123            Phosphorus         ppm         ASTM D5185(m)         1145         1149         1126            Zinc         ppm         ASTM D5185(m)         3         9         53            Sulfur         ppm         ASTM D5185(m)         17909         19920         26154		Manganese	ppm	ASTM D5185(m)		0	2	
Phosphorus         ppm         ASTM D5185(m)         1145         1149         1126            Zinc         ppm         ASTM D5185(m)         3         9         53            Sulfur         ppm         ASTM D5185(m)         17909         19920         26154		Magnesium	ppm	ASTM D5185(m)	1	1	9	
Zinc         ppm         ASTM D5185(m)         3         9         53            Sulfur         ppm         ASTM D5185(m)         17909         19920         26154		Calcium	ppm	ASTM D5185(m)	7	13	123	
Sulfur         ppm         ASTM D5185(m)         17909         19920         26154		Phosphorus	ppm	ASTM D5185(m)	1145	1149	1126	
		Zinc	ppm	ASTM D5185(m)	3	9	53	
Visc @ 40°C cSt ASTM D7279(m) 99.6 103 192		Sulfur	ppm	ASTM D5185(m)	17909	19920	26154	
		Visc @ 40°C	cSt	ASTM D7279(m)	99.6	103	192	





ISO 17025:2017
Accredited
Laboratory

**Laboratory**: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Sample No.**: LH0291208 **Received**: 07 May 2024

 Sample No.
 : LH0291208
 Received
 : 07 May 2024

 Lab Number
 : 02633940
 Tested
 : 07 May 2024

 Unique Number
 : 5775093
 Diagnosed
 : 07 May 2024 - Wes Davis

Test Package : MOB 1
To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Maple Site Solutions Inc.

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Contact: Service Manager

T:

F: