



OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**Store 9 - Marietta**  
Machine Id  
**PETERBILT 337 2NPZHJGX20EM230104**  
Component  
**Rear Differential**  
Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0050829</b>	LEC0015177	LEC0001835
Sample Date		Client Info		<b>27 Jun 2024</b>	01 Sep 2020	06 Apr 2019
Machine Age	mls	Client Info		<b>225994</b>	180961	150429
Oil Age	mls	Client Info		<b>226102</b>	180961	150429
Filter Age	mls	Client Info		<b>0</b>	0	150429
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>75</b>	53	38
Iron	ppm	ASTM D5185m	>500	<b>173</b>	177	144
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	1	1
Nickel	ppm	ASTM D5185m	>10	<b>4</b>	8	6
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	2	2
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>100	<b>1</b>	2	2
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

There is no indication of any contamination in the component.

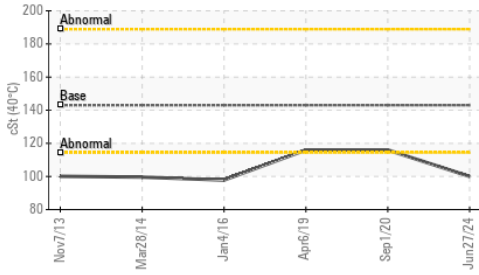
Silicon	ppm	ASTM D5185m	>75	<b>43</b>	▲ 138	▲ 101
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	0
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

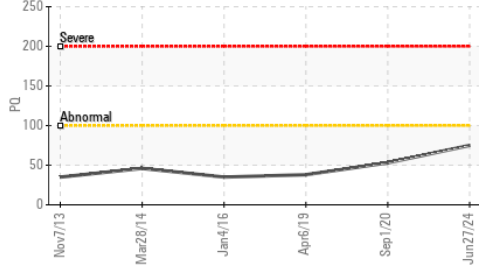
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>170	<b>4</b>	8	8
Boron	ppm	ASTM D5185m	400	<b>287</b>	129	154
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	12	<b>1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>4</b>	4	3
Magnesium	ppm	ASTM D5185m	12	<b>9</b>	4	<1
Calcium	ppm	ASTM D5185m	150	<b>58</b>	18	10
Phosphorus	ppm	ASTM D5185m	1650	<b>1306</b>	1627	1406
Zinc	ppm	ASTM D5185m	125	<b>19</b>	11	8
Sulfur	ppm	ASTM D5185m	22500	<b>23423</b>	21638	19765
Visc @ 40°C	cSt	ASTM D445	143	<b>100</b>	116	116.0

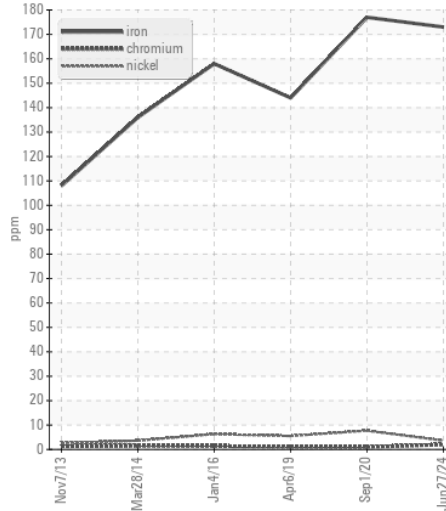
Viscosity @ 40°C



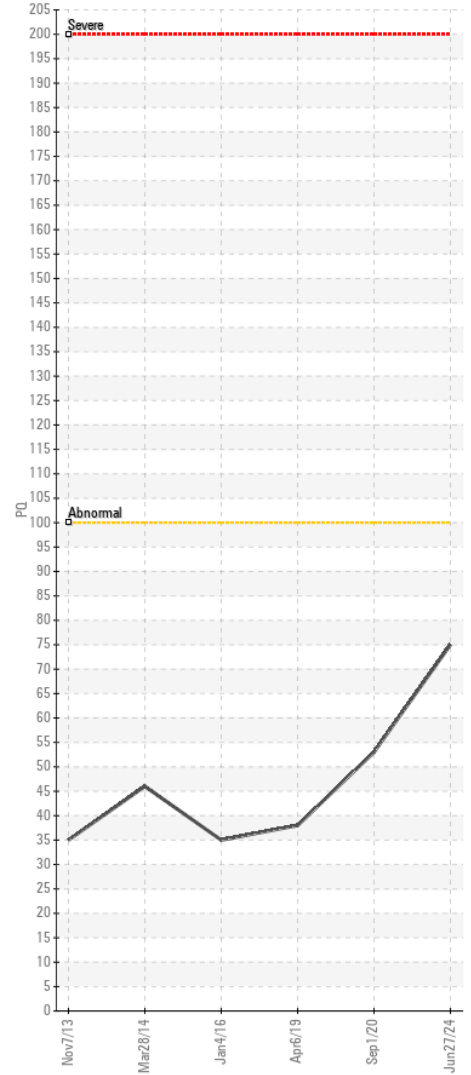
PQ



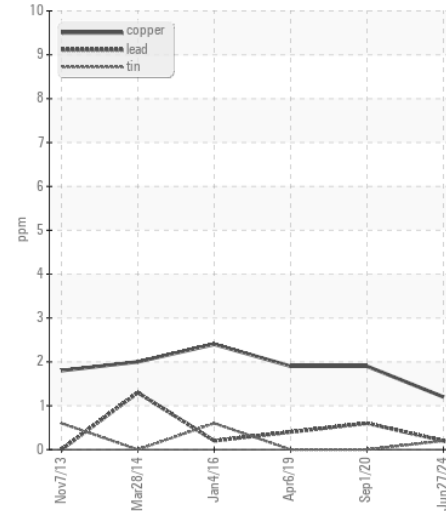
Ferrous Alloys



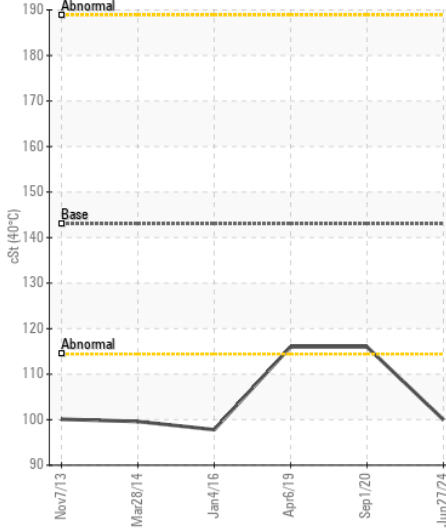
PQ



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : LEC0050829 Received : 08 Jul 2024  
 Lab Number : 06230428 Tested : 09 Jul 2024  
 Unique Number : 11113921 Diagnosed : 10 Jul 2024 - Don Baldrige  
 Test Package : CONST ( Additional Tests: PQ )

**LESLIE EQUIPMENT COMPANY**  
 105 TENNIS CENTER DR.  
 MARIETTA, OH  
 US 45750-9765  
 Contact: LEANNE KENDALL  
 KendalLeanne@lec1.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)

T: (740)373-5570