CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
C-33
Component
Left Final Drive
Fluid
PHILLIPS EP-5 80W90 (--- QTS)

RECOMMENDATION

We advise that you check for the source of water entry. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

There is a moderate concentration of water present in the oil.

FLUID CONDITION

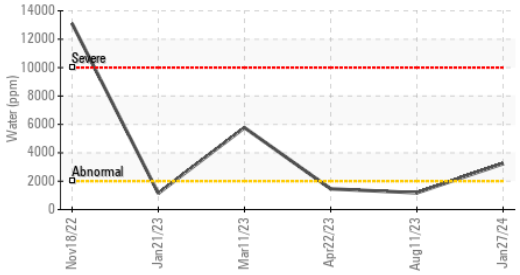
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0899781**	WC0833511	WC0833552
Sample Date		Client Info		**27 Jan 2024**	16 Oct 2023	11 Aug 2023
Machine Age	hrs	Client Info		**9996**	9337	58909
Oil Age	hrs	Client Info		**392**	428	341
Filter Age	hrs	Client Info		**392**	428	0
Oil Changed		Client Info		**Not Changd**	N/A	N/A
Filter Changed		Client Info		**Not Changd**	N/A	N/A
Sample Status				**ABNORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>500	**57**	61	106
Chromium	ppm	ASTM D5185m	>10	**2**	2	4
Nickel	ppm	ASTM D5185m	>10	**<1**	<1	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**2**	<1	3
Lead	ppm	ASTM D5185m	>25	**0**	0	0
Copper	ppm	ASTM D5185m	>50	**3**	4	13
Tin	ppm	ASTM D5185m	>10	**<1**	<1	1
Vanadium	ppm	ASTM D5185m		**0**	<1	<1
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	**13**	5	10
Potassium	ppm	ASTM D5185m	>20	**2**	6	10
Water	%	ASTM D6304	>0.2	▲ **0.323**	---	0.118
ppm Water	ppm	ASTM D6304	>2000	▲ **3230**	---	1180
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	▲ **HAZY**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	▲ **0.2%**	NEG	0.2%
Sodium	ppm	ASTM D5185m		**0**	1	1
Boron	ppm	ASTM D5185m		**8**	21	51
Barium	ppm	ASTM D5185m		**<1**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	2	2
Manganese	ppm	ASTM D5185m		**<1**	1	2
Magnesium	ppm	ASTM D5185m		**6**	3	10
Calcium	ppm	ASTM D5185m		**23**	15	50
Phosphorus	ppm	ASTM D5185m		**412**	349	349
Zinc	ppm	ASTM D5185m		**15**	12	13
Sulfur	ppm	ASTM D5185m		**19678**	19034	21438
Visc @ 40°C	cSt	ASTM D445		**131**	140	137

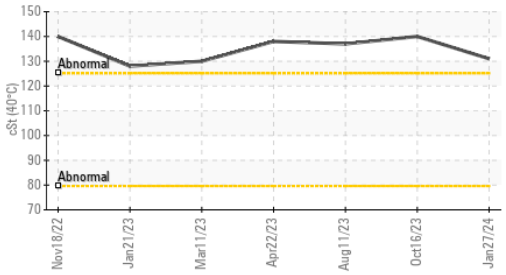
Report Id: FRADAY [WUSCAR] 06076093 (Generated: 02/03/2024 07:28:32) Rev: 1

Contact/Location: BILL PITTL JR - FRADAY

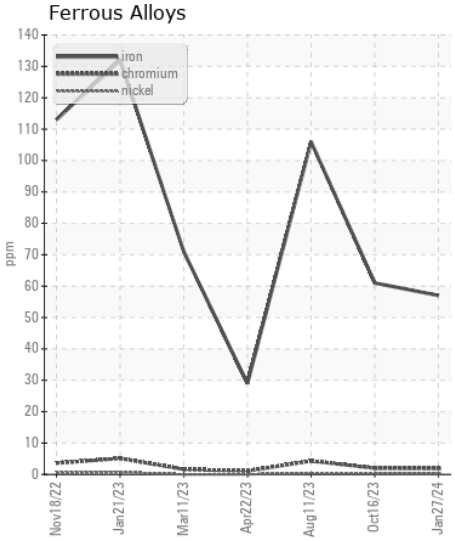
Water (KF)



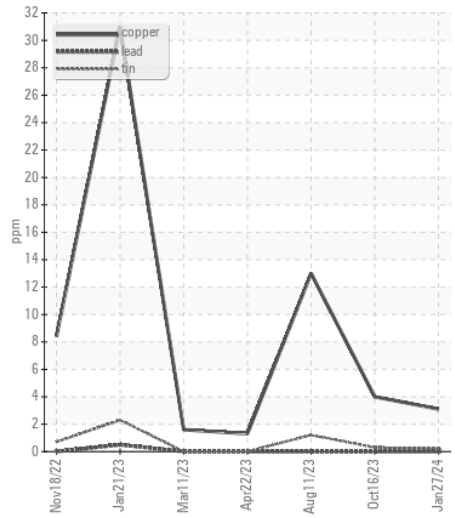
Viscosity @ 40°C



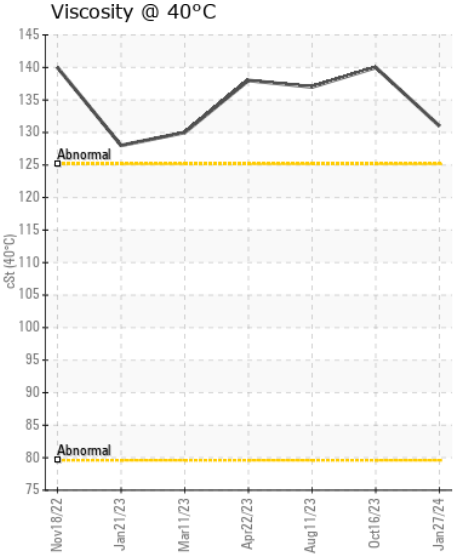
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: WC0899781	**Recieved**	: 31 Jan 2024
Lab Number	: 06076093	**Diagnosed**	: 01 Feb 2024
Unique Number	: 10858184	**Diagnostician**	: Sean Felton
Test Package	: CONST (Additional Tests: KF, PQ)		

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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